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HCOOS01	1002071	310	3 - 701	2485			H0128: 1, T0042: 1, H0280: 1, L0475: 1, H0334: 1, H0625: 1, H0366: 1, H0509: 1, H0130: 1, H0641: 1, H0633: 1, H0026: 1, L0371: 1, L0646: 1, L0648: 1, L0364: 1, L0522: 1, L0784: 1, L0523: 1, L0655: 1, L0606: 1, L0558: 1, L0540: 1, L0526: 1, L0384: 1, L0544: 1, L0528: 1, L0663: 1, L0664: 1, S0216: 1, S0296: 1, H0682: 1, H0648: 1, S0330: 1, H0521: 1, H0522: 1, S0146: 1, H0187: 1, L0740: 1, L0749: 1, L0752: 1, H0343: 1, L0592: 1, L0593: 1, H0668: 1, H0653: 1, H0667: 1, S0194: 1, H0542: 1, S0424: 1 and H0293: 1.	ip34.1	120550, 120570, 120575, 121800,
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HDACA35	1002096	311	68 - 472	2486	Asp-1 to Lys-12, Pro-18 to Arg-26, Asp-51 to Val-74, Ala-80 to Leu-102.	L0637: 1, L0761: 1, L0373: 1, L0648: 1, L0521: 1, L0389: 1, L0376: 1, L0784: 1, L0523: 1, L0378: 1, L0527: 1, L0517: 1, L0383: 1, L0545: 1, L0541: 1, L0368: 1, L0352: 1, H0547: 1, H0689: 1, H0666: 1, H0539: 1, S0332: 1, S0044: 1, S0176: 1, S0146: 1, H0214: 1, H0478: 1, L0741: 1, L0749: 1, L0756: 1, L0759: 1, H0444: 1, H0343: 1, S0434: 1, L0361: 1, L0601: 1, L0366: 1, S0106: 1, H0667: 1, S0194: 1, H0423: 1, L0697: 1 and H0293: 1.		
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HOVDG59	1002328	312	1 - 639	2487	Pro-1 to His-7, Glu-61 to Lys-67, Arg-94 to Phe-104, Pro-164 to Trp-169.	H0672: 1, AR052: 20, AR039: 14, AR053: 13, AR056: 11, AR033: 11, AR055: 9, AR089: 9, AR104: 8, AR061: 7, AR060: 6 L0438: 6, L0439: 6, L0776: 5, H0428: 4, L0805: 4, H0687: 3, L0770: 3, H0651: 3, L0789: 2, L0756: 2, L0758: 2, L0361: 2, S0212: 1, S0001: 1, H0351: 1, H0587: 1, H0581: 1, H0052: 1, H0327: 1, H0178: 1, L0769: 1, L0767: 1, L0794: 1, L0807: 1, S0152: 1, H0522: 1, L0731: 1, L0759: 1 and L0608: 1.		
HTJAD78	1002459	313	1236 - 196	2488	Thr-2 to Glu-13, Ser-23 to Ser-28, Ser-36 to Ser-42.	L0748: 29, L0581: 21, H0510: 8, H0255: 5, H0574: 5, H0506: 4, H0331: 3, H0581: 3, H0264: 3, L0803: 3, L0774: 3, L0663: 3, H0555: 3, S0116: 2, H0632: 2, H0087: 2,	144120, 147020, 147110	14q32.33

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HCDCF69	1002468	314	170 - 508	2489	Cys-20 to Gly-29. S0212: 7, L0809: 7, L0747: 7, S0045: 6, H0046: 6, H0551: 6, L0775: 6, L0751: 6, L0749: 6, L0757: 6, H0545: 5, S0126: 5, S3012: 5, S0040: 4, H0618: 4, H0318: 4, H0251: 4, H0024: 4, H0083: 4, S0250: 4, H0124: 4, H0100: 4, L0794: 4, L0438: 4, S0027: 4, L0731: 4, H0295: 3, S0222: 3, H0253: 3, H0644: 3, L0776: 3, L0659: 3, L0665: 3, H0539: 3, L0439: 3, L0740: 3.

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HPTTW90	1002479	315	3 - 356	2490	Glu-80 to Arg-86.			L0439: 3, H0688: 2, S0142: 2, L0664: 2, H0521: 2, L0751: 2, S0418: 1, S0222: 1, S0250: 1, H0252: 1, H0213: 1, H0617: 1, H0641: 1, S0344: 1, L0371: 1, L0803: 1, L0653: 1, L0527: 1, L0659: 1, H0520: 1, L0780: 1 and H0423: 1.	4p16.3	134934, 134934, 134934, 134934, 134934, 143100, 180072, 180072, 194190, 252800, 252800, 600965
HSUBG36	1002492	316	58 - 342	2491	Arg-7 to Val-13, Leu-28 to Arg-33, Ser-69 to Gln-76.			L0749: 9, L0766: 5, H0659: 5, H0657: 4, S0022: 4, S0438: 3, S0422: 3, L0521: 3, L0518: 3, L0783: 3, H0144: 3, L0758: 3, H0685: 2, H0656: 2,	1q32	114208, 114208, 119300, 120620, 120620, 120920, 134370,

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HODFU72	1002527	317	3 - 1199	2492	<p>Leu-14 to Asn-32, Ala-35 to Gly-40, Lys-51 to Ser-56, Ala-68 to Leu-78, Ile-91 to Lys-99, Gly-101 to Ala-124, His-141 to Lys-152, Ser-174 to Asp-181, Pro-203 to Leu-215, Lys-294 to Gly-301.</p>	<p>H0555: 1, S0028: 1, L0755: 1, L0757: 1, S0026: 1, H0136: 1, S0192: 1, H0542: 1, H0543: 1 and H0423: 1. L0777: 9, L0754: 8, H0457: 6, H0251: 5, H0615: 5, L0757: 5, S0360: 4, H0031: 4, L0731: 4, H0445: 4, H0438: 3, L0369: 3, L0662: 3, L0766: 3, L0659: 3, S0126: 3, L0747: 3, H0013: 2, H0644: 2, H0628: 2, L0598: 2, L0770: 2, L0769: 2, L0775: 2, L0805: 2, L0666: 2, S0374: 2, H0682: 2, L0779: 2, L0758: 2, L0759: 2, L0599: 2, L0595: 2, H0543: 2, H0423: 2, H0170: 1, H0556: 1, S0040: 1, H0381: 1, L0481: 1, S0358: 1, S0376: 1, T0008: 1, S0046: 1, H0393: 1, L0717: 1, S0222: 1, H0587: 1, H0333: 1, H0642: 1,</p>		
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HCN5F57	1002545	318	20 - 826	2493	Ser-80 to Gln-98.		H0615: 2		
HODJUI3	1002546	319	2 - 121	2494	Thr-2 to Ser-9, Pro-23 to Glu-34.				
HODIL25	1002551	320	195 - 1556	2495	Ser-30 to Lys-46, Leu-55 to Gly-67, Ile-80 to Asp-85, Glu-146 to Arg-155, Asn-182 to Arg-192.		H0040: 6, H0013: 3, S0136: 3, L0777: 3, H0542: 3, H0171: 2, H0581: 2, H0328: 2, H0615: 2, L0662: 2, H0144: 2, L0731: 2, H0624: 1, H0170: 1, H0556: 1, S0282: 1, H0661: 1, H0176: 1, H0402: 1, S0354: 1, S0360: 1, H0393: 1, S6014: 1, H0574: 1, H0427: 1, H0575: 1, L0157: 1, S0003: 1, H0553: 1, H0090: 1, H0591: 1, T0067: 1, H0264: 1, H0412: 1, T0041: 1, H0494: 1, H0646: 1, S0002: 1, L0646: 1, L0642: 1, L0645: 1, L0651: 1, L0655: 1, L0659: 1, L0791: 1, L0666: 1.		

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HUVHS6	1002563	321	162 - 791	2496	Gln-34 to Pro-41, Lys-60 to Thr-71, Val-78 to Gln-86, His-139 to Tyr-149, Arg-183 to His-191.	L0803: 4, L0793: 4, L0749: 4, L0438: 3, L0439: 3, S0420: 2, H0485: 2, H0038: 2, H0561: 2, L0804: 2, L0747: 2, L0779: 2, L0591: 2, H0265: 1, H0556: 1, S0418: 1, H0728: 1, H0208: 1, H0619: 1, S0278: 1, H0486: 1, H0244: 1, H0052: 1, S0366: 1, H0598: 1, H0623: 1, L0640: 1, L0364: 1, L0774: 1, L0776: 1, L0807: 1, L0659: 1, L0809: 1, L0791: 1, S0374: 1, H0520: 1, H0547: 1, H0521: 1, H0522: 1, S3014: 1, L0752: 1, L0759: 1, H0445: 1, S0436: 1 and L0599: 1.		
HPM/Q18	1002565	322	392 - 823	2497	Gln-29 to Gln-42.	H0644: 4, S0036: 1 and		

HLHCl46	1002591	323	114 - 923	2498	<p>Glu-1 to Asp-13, His-55 to Leu-66, Gln-69 to Cys-79, Thr-81 to Asp-90, Gln-132 to Arg-141, Asp-158 to Trp-169, Lys-171 to Asn-180, His-208 to Arg-221, Pro-229 to Glu-237.</p>	<p>H0521: 1, L0591: 15, L0751: 13, L0665: 11, L0754: 9, H0689: 6, L0750: 6, H0362: 3, H0688: 3, H0617: 3, L0774: 3, L0657: 3, H0658: 3, H0575: 2, H0615: 2, H0059: 2, H0690: 2, H0660: 2, S0328: 2, S0330: 2, L0743: 2, L0756: 2, L0755: 2, H0671: 1, H0282: 1, H0024: 1, T0006: 1, H0644: 1, H0647: 1, L0769: 1, L0662: 1, L0803: 1, L0806: 1, L0783: 1, L0809: 1, L0664: 1, H0682: 1, L0748: 1, L0596: 1 and L0599: 1.</p>		
HAOSD18	1002607	324	29 - 1408	2499	<p>Arg-12 to Arg-19, His-62 to Leu-73, Ser-103 to Thr-111, Asn-147 to Val-158, Phe-207 to Trp-213, Lys-243 to Lys-276, Ala-281 to Cys-289, Pro-297 to Pro-302, Glu-315 to Asp-324.</p>			



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HSCLR05	1002807	327	3 - 242	2502	Lys-1 to Asn-10, Phe-40 to Gly-55, Asn-61 to Arg-66.	L0748: 3, H0486: 1, H0428: 1, H0034: 1, H0690: 1, H0435: 1, H0658: 1, H0653: 1 and L0465: 1.		
HVVAO74	1002811	328	37 - 831	2503	Pro-107 to Gly-118, Gly-128 to Ser-140, Asp-148 to Glu-166, Ala-173 to Ala-186, Arg-196 to Ala-210, Ile-219 to Trp-228, Asn-238 to Met-251.	L0777: 17, L0766: 11, S0360: 10, L0748: 10, H0620: 8, H0124: 8, L0770: 8, H0295: 7, S0408: 7, S0046: 6, L0775: 6, L0659: 6, L0744: 6, L0595: 6, S0278: 5, S0440: 5, L0769: 5, L0655: 5, L0657: 5, L0666: 5, L0731: 5, H0556: 4, H0484: 4, S0358: 4, H0580: 4, S0222: 4, H0559: 4, H0052: 4, H0545: 4, H0673: 4,	113100, 124200, 147440, 158590, 160781, 163950, 163950, 235800, 251170, 276710, 600175, 601517	

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HVVB181	1003126	329	199 - 843	2504	Asp-45 to Pro-56, Thr-86 to Ser-91, Pro-127 to Arg-133, Asp-201 to Gln-215	L0529: 1, L0647: 1, S0428: 1, H0698: 1, H0702: 1, L0565: 1, H0520: 1, H0690: 1, H0682: 1, H0684: 1, H0659: 1, H0670: 1, S0328: 1, H0539: 1, S0378: 1, S0380: 1, H0709: 1, S0044: 1, S0404: 1, H0436: 1, H0576: 1, S0037: 1, L0741: 1, L0755: 1, S0434: 1, L0597: 1, L0589: 1, L0608: 1, L0366: 1, S0026: 1, S0194: 1, S0276: 1, H0423: 1 and H0352: 1, L0777: 14, L0748: 11, L0747: 7, L0752: 7, H0295: 6, L0769: 6, L0749: 4, L0755: 4, H0341: 3, H0580: 3, H0581: 3, H0529: 3, L0770: 3, L0751: 3, L0750: 3, L0756: 3, L0605: 3, L0601: 3, L0615: 2, S0116: 2, H0402: 2, S0132: 2, H0575: 2, H0253: 2, H0309: 2, H0081: 2,	19q13.1- q13.2	107741, 113900, 122720, 122720, 126340, 126391, 160900, 164731, 172400, 172400, 173850, 180901, 180901,
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HVVBK18	1003155	330	185 - 925	2505	Lys-75 to Lys-80, Leu-138 to Tyr-144, Tyr-153 to Pro-159.	L0376: 1, L0783: 1, L0532: 1, L0666: 1, L0665: 1, H0689: 1, H0659: 1, H0658: 1, H0670: 1, H0660: 1, H0648: 1, H0672: 1, S0330: 1, H0521: 1, S0044: 1, H0134: 1, S0027: 1, L0740: 1, L0731: 1, H0445: 1, S0192: 1 and H0542: 1.	L0740: 11, L0751: 11, L0731: 7, L0758: 7, H0659: 6, H0672: 6, L0748: 6, L0759: 6, H0251: 5, H0441: 4, L0766: 4, L0806: 4, S0040: 3, H0551: 3, H0412: 3, S0422: 3, L0774: 3, L0775: 3, H0648: 3, H0521: 3, L0754: 3, L0747: 3, L0752: 3, L0755: 3, S0026: 3, H0624: 2, H0341: 2, S0298: 2, S0358: 2, S0360: 2, S0046: 2, H0333: 2, H0318: 2, H0009: 2, H0024: 2, H0083: 2, S0214: 2, H0617: 2.	lp34.2	120550, 120570, 120575, 121800, 130500, 133200, 138140, 171760, 171760, 255800
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HOFMS19	1003222	331	12 - 317	2506			L0520: 1, L0769: 1, L0796: 1, L0639: 1, L0761: 1, L0646: 1, L0521: 1, L0533: 1, L0376: 1, L0607: 1, L0657: 1, L0659: 1, L0635: 1, L0382: 1, L0664: 1, S0374: 1, H0684: 1, H0670: 1, S0328: 1, S0146: 1, S3012: 1, S3014: 1, S0028: 1, S0032: 1, L0743: 1, L0750: 1, L0779: 1, L0757: 1, S0436: 1, L0596: 1, L0592: 1, L0593: 1, S0196: 1, H0542: 1 and H0422: 1.	H0415: 2	21q11.2- q21.1	159595
HSCLM55	1003224	332	1 - 768	2507	Phe-2 to Asp-14, Leu-35 to Ile-42, Leu-63 to Lys-69, Thr-79 to Glu-84, Ile-137 to Gln-149, Thr-195 to Asp-200, Lys-216 to Glu-222, Asn-228 to Asn- 233.					
HETJU23	1003706	333	860 - 1477	2508				AR055: 9, AR061: 8,		

HNOKB73	1004480	334	3 - 515	2509	AR033: 6, AR060: 6, AR052: 5, AR089: 4, AR053: 3, AR096: 2, AR039: 2, AR104: 1 L0749: 4, L0794: 3, H0658: 3, H0046: 2, L0803: 2, L0666: 2, L0663: 2, L0777: 2, H0556: 1, H0351: 1, H0253: 1, H0014: 1, T0023: 1, H0038: 1, H0477: 1, H0412: 1, L0370: 1, L0763: 1, L0769: 1, L0639: 1, L0800: 1, L0768: 1, L0649: 1, L0804: 1, L0776: 1, L0367: 1, L0438: 1, H0435: 1, H0670: 1, H0666: 1, H0522: 1 and L0759: 1, S0192: 130, L0659: 16, L0666: 10, S0360: 7, L0771: 6, S0194: 5, L0662: 4, S0196: 4, L0665: 3, H0251: 2, H0252: 2, L0598: 2, L0638: 2, L0637: 2, L0649: 2, L0783: 2, H0684: 2, H0170: 1, H0687: 1, S0250: 1,		
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HODFB06	1004583	335	392 - 550	2510		Phe-11 to Gly-16, Gln-44 to Ile-53.	H0615: 3 and L0740: 1.	
HODJ/A76	1004619	336	198 - 302	2511		Ser-1 to Cys-12, Gly-16 to Val-29.	H0615: 1	
HODJY60	1004625	337	111 - 683	2512		Arg-1 to Gly-8, Thr-82 to Thr-95, Ser-104 to Ile-110, Asn-136 to Glu-141.	L0803: 11, L0748: 11, L0777: 10, L0754: 8, L0759: 6, S0126: 5, S0358: 3, L0804: 3, L0439: 3, L0740: 3, L0747: 3, L0731: 3, L0758: 3, L0415: 2, S0360: 2, H0437: 2, H0457: 2, S0003: 2, H0615: 2, L0774: 2, L0775: 2, L0375: 2, L0666: 2, S0328: 2, L0750: 2, L0779: 2, L0752: 2, L0755: 2, L0757: 2, H0341: 1, H0637: 1, H0580: 1, H0592: 1, L0021: 1, I0110: 1, H0620: 1, H0266: 1, S0314: 1.	



							H0039: 1, H0031: 1, H0553: 1, L0055: 1, T0067: 1, H0412: 1, H0494: 1, H0561: 1, L0763: 1, L0772: 1, L0800: 1, L0764: 1, L0771: 1, L0766: 1, L0382: 1, L0809: 1, L0790: 1, L0532: 1, L0663: 1, H0144: 1, H0520: 1, H0682: 1, H0658: 1, H0648: 1, H0672: 1, S0044: 1, H0436: 1, L0756: 1, L0608: 1, S0026: 1, H0543: 1 and S0424: 1.			
HODEF10	1004627	338	1 - 231	2513		His-7 to Gly-17, Phe-24 to Tyr-40.	H0615: 2			
HODFB03	1004631	339	1 - 711	2514		Gln-24 to Leu-29, His-38 to Asn-50, Gly-117 to Tyr-128, Ser-135 to Pro-147.	S0354: 1, H0083: 1, H0615: 1 and H0665: 1.	6p12-p11.1	180297, 230450, 263200, 601690	
HPMLN08	1004632	340	518 - 1294	2515			L0752: 14, L0777: 12, L0754: 11, L0731: 11, H0692: 10, L0758: 8, L0766: 6, L0759: 6, S0358: 5, L0809: 5, S0222: 4, S0003: 4, H0328: 4, L0769: 4, L0771: 4, L0803: 4,			

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	H0327: 1, H0050: 1, L0471: 1, H0024: 1, S0388: 1, H0510: 1, H0266: 1, H0271: 1, H0428: 1, H0039: 1, H0644: 1, L0055: 1, H0673: 1, H0212: 1, S0036: 1, H0038: 1, H0272: 1, H0366: 1, S0450: 1, S0440: 1, S0210: 1, S0422: 1, S0002: 1, L0598: 1, L0638: 1, L0667: 1, L0772: 1, L0646: 1, L0800: 1, L0643: 1, L0773: 1, L0648: 1, L0626: 1, L0794: 1, L0804: 1, L0554: 1, L0806: 1, L0807: 1, L0559: 1, L5622: 1, L5623: 1, L0789: 1, L0663: 1, S0374: 1, S0126: 1, S0122: 1, H0658: 1, S0380: 1, H0710: 1, H0478: 1, S0027: 1, S0206: 1, L0439: 1, L0750: 1, L0756: 1, L0779: 1, H0445: 1, H0343: 1, S0434: 1, L0591: 1,
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							L0608: 1, L0362: 1, H0668: 1, S0026: 1, H0653: 1 and H0423: 1.			
HODEH08	1004633	341	1 - 378	2516			H0032: 5, H0620: 4, H0599: 3, H0024: 3, H0615: 3, H0556: 2, H0141: 2, H0585: 2, S0420: 2, H0014: 2, H0212: 2, L0748: 2, L0740: 2, H0624: 1, H0170: 1, H0149: 1, H0484: 1, H0580: 1, H0393: 1, H0370: 1, H0592: 1, H0318: 1, S0049: 1, H0052: 1, H0530: 1, H0081: 1, H0012: 1, H0023: 1, H0286: 1, H0039: 1, H0135: 1, H0272: 1, H0412: 1, H0059: 1, S0440: 1, H0132: 1, S0002: 1, L0602: 1, L0746: 1, H0445: 1 and H0506: 1.			
HEGBF25	1004635	342	57 - 773	2517		Ala-1 to Gly-23, Gly-26 to Leu-32, Leu-53 to Leu-65, Gln-145 to Thr-151.	AR096: 1, AR089: 1, AR104: 0, AR055: 0, AR060: 0, AR061: 0, L0761: 3, L0439: 3, L0747: 3, L0766: 2, H0659: 2, L0779: 2,			

						L0777: 2, H0170: 1, S0360: 1, H0550: 1, H0023: 1, H0018: 1, H0641: 1, L0763: 1, L0769: 1, L0764: 1, L0803: 1, L0774: 1, L0655: 1, L0666: 1, H0648: 1 and H0436: 1.			
HODJB51	1004643	343	201 - 272	2518	Set-1 to Asp-19.	H0328: 1 and H0615: 1.			
HODEC38	1004648	344	2 - 208	2519		L0764: 9, L0747: 6, L0766: 5, L0070: 5, L0748: 4, L0662: 3, L0749: 3, L0758: 3, L0759: 3, L0601: 3, H0574: 2, H0014: 2, H0615: 2, L0529: 2, L0666: 2, L0596: 2, H0265: 1, H0556: 1, H0583: 1, S0356: 1, S0360: 1, S0222: 1, H0486: 1, L0021: 1, H0581: 1, H0309: 1, H0545: 1, H0172: 1, H0188: 1, S0214: 1, H0252: 1, H0328: 1, H0674: 1, L0456: 1, H0625: 1, H0561: 1, S0426: 1, L0763: 1, L0769: 1, L0646: 1.			

HODIQ24	1004660	345	3 - 236	2520	Arg-6 to Gly-11, Pro-18 to Glu-33, Ala-48 to Asp-68.	L0641: 1, L0645: 1, L0773: 1, L0768: 1, L0794: 1, L0551: 1, L0774: 1, L0775: 1, L0375: 1, L0378: 1, L0805: 1, L0655: 1, L0658: 1, L0659: 1, L0783: 1, L0532: 1, L0664: 1, H0521: 1, L0611: 1, S0432: 1, L0757: 1, L0589: 1, L0591: 1, L0599: 1, H0543: 1 and H0423: 1.		
						L0794: 7, L0776: 4, L0740: 4, H0046: 3, L0805: 3, L0749: 3, H0624: 2, S0282: 2, L0157: 2, H0615: 2, L0663: 2, H0519: 2, L0748: 2, L0747: 2, L0777: 2, L0731: 2, H0686: 1, H0294: 1, H0486: 1, H0349: 1, H0009: 1, H0178: 1, H0050: 1, L0471: 1, H0328: 1, H0030: 1, H0412: 1, S0448: 1, L0764: 1, L0662: 1, L0807: 1, L0789: 1, L0792: 1, L0666: 1.		

HVV/DD56	1004887	346	399 - 1400	2521	Asn-32 to Glu-42, Leu-59 to Ala-66, Leu-73 to Arg-78, Leu-100 to Leu-110, Asp-155 to Thr-161, Thr-166 to Cys-173, Leu-214 to Ser-220, Ser-227 to Lys-232, Arg-236 to Gly-242, Phe-257 to Asp-264, Arg-309 to Ala-314.	S0126: 1, H0670: 1, L0742: 1, L0743: 1, L0754: 1, L0779: 1, L0780: 1 and L0759: 1. H0581: 8, H0422: 7, L0766: 5, H0521: 4, L0588: 4, S0360: 3, H0486: 3, L0663: 3, H0436: 3, S0434: 3, H0583: 2, S0298: 2, S0354: 2, S0408: 2, H0046: 2, H0622: 2, H0090: 2, H0494: 2, L0761: 2, L0655: 2, L0659: 2, H0518: 2, H0522: 2, H0696: 2, L0777: 2, H0445: 2, H0423: 2, H0556: 1, S0430: 1, H0650: 1, H0657: 1, S0116: 1, S0356: 1, S0376: 1, H0580: 1, H0586: 1, L0586: 1, H0250: 1, L0021: 1, T0071: 1, H0596: 1, H0644: 1, H0264: 1, H0412: 1, H0561: 1, S0440: 1, H0641: 1, H0649: 1, L0770: 1, L5565: 1, L0372: 1, L0642: 1,		
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HTHDV01	1004950	347	3 - 1292	2522	<p>His-1 to Arg-20, Ala-30 to Ala-38, Ala-58 to Ser-69, Ser-138 to Pro-143, Leu-182 to Lys-198, Cys-204 to Thr-212, Ala-217 to Leu-229, Leu-237 to Lys-242, Asn-295 to Ser-302, Leu-314 to Phe-319, Ser-327 to Ser-338, Arg-409 to Ser-423.</p>	<p>L0387: 1, L0381: 1, L0775: 1, L0527: 1, L0664: 1, L0665: 1, S0216: 1, S0374: 1, L0565: 1, H0684: 1, H0435: 1, H0659: 1, H0648: 1, H0672: 1, H0710: 1, H0555: 1, L0748: 1, L0754: 1, L0749: 1, L0756: 1, H0595: 1 and H0543: 1.</p>	<p>H0696: 37, H0692: 26, H0650: 22, H0271: 21, S0434: 21, S0406: 17, H0656: 13, S0360: 13, H0411: 12, H0710: 12, S0280: 11, H0416: 11, H0553: 11, L0666: 11, H0486: 10, H0581: 10, H0555: 10, L0751: 10, H0713: 9, S0354: 9, L0662: 9, S0126: 9, H0717: 8, S0358: 8, L0774: 8, H0144: 8, S0374: 8, H0670: 8, L0745: 8, H0436: 7, L0748: 7, H0013: 6, H0427: 6, H0596: 6, H0644: 6, H0674: 6, L0659: 6, L0754: 6.</p>	<p>14q24.3</p>	<p>104311, 109150, 182600, 245200, 601208</p>
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	S0442: 5, H0580: 5, H0156: 5, H0457: 5, H0615: 5, H0622: 5, H0063: 5, L0776: 5, H0648: 5, H0263: 4, H0179: 4, H0031: 4, H0163: 4, L0764: 4, L0649: 4, L0438: 4, H0672: 4, L0439: 4, H0677: 4, L0600: 4, S0116: 3, S0444: 3, H0619: 3, H0421: 3, H0032: 3, S0438: 3, S0440: 3, L0598: 3, L0803: 3, L0809: 3, L0532: 3, L0664: 3, L0665: 3, H0689: 3, S0378: 3, L0756: 3, H0624: 2, H0556: 2, H0402: 2, S0356: 2, S0376: 2, S0046: 2, S0222: 2, H0574: 2, H0635: 2, H0575: 2, H0036: 2, H0597: 2, H0544: 2, H0046: 2, H0123: 2, H0050: 2, H0014: 2, H0201: 2, T0010: 2, H0355: 2, H0135: 2, T0004: 2, S0344: 2, S0002: 2,
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L0769: 2, L0372: 2, L0375: 2, L0653: 2, S0328: 2, H0539: 2, L0602: 2, H0521: 2, H0479: 2, L0743: 2, L0744: 2, L0746: 2, L0749: 2, L0779: 2, L0758: 2, S0436: 2, H0265: 1, H0685: 1, H0716: 1, T0087: 1, S6024: 1, S0430: 1, S0212: 1, H0669: 1, H0662: 1, H0638: 1, S0418: 1, L0005: 1, H0645: 1, H0351: 1, S6022: 1, H0369: 1, H0550: 1, H0441: 1, H0409: 1, H0600: 1, H0586: 1, H0587: 1, L0586: 1, H0244: 1, H0098: 1, L0022: 1, H0590: 1, H0309: 1, H0231: 1, H0150: 1, H0081: 1, L0471: 1, H0620: 1, H0024: 1, H0373: 1, L0163: 1, H0060: 1, H0688: 1, H0428: 1, H0039: 1, T0023: 1, L0142: 1, H0168: 1, H0169: 1,
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HVVDJ95	1005153	348	203 - 400	2523	Pro-52 to Gly-58.	H0068: 1, H0038: 1, H0155: 1, S0294: 1, H0509: 1, H0131: 1, L0762: 1, L0763: 1, L0371: 1, L0638: 1, L5565: 1, L0373: 1, L0771: 1, L0768: 1, L0364: 1, L0650: 1, L0632: 1, L0523: 1, L0655: 1, L0783: 1, L0530: 1, L0647: 1, L0663: 1, H0725: 1, H0693: 1, L0352: 1, H0690: 1, H0660: 1, S0330: 1, S0380: 1, H0709: 1, S0350: 1, S0190: 1, S0404: 1, H0478: 1, L0611: 1, S3014: 1, S0027: 1, S0206: 1, L0740: 1, L0780: 1, L0731: 1, S0260: 1, H0445: 1, H0343: 1, L0599: 1, L0361: 1, S0462: 1 and S0456: 1.	9q34	125270, 125270, 128100, 137350, 191100,
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HODIY29	1005236	349	2115 - 1081	2524	Lys-1 to Phe-58, Pro-62 to Ser-105, Arg-118 to Asp-154, Pro-181 to Pro-187, Ala-215 to Asp-221, Pro-228 to Phe-240, Pro-264 to Ser-269, Ser-281 to Asp-291, Glu-301 to Phe-314.	L0748: 11, H0591: 2, L0779: 2, L0758: 2, H0624: 1, S0342: 1, S0045: 1, H0351: 1, H0427: 1, S0010: 1, H0052: 1, H0251: 1, N0006: 1, L0471: 1, H0266: 1, H0615: 1, H0622: 1, H0031: 1, H0090: 1, H0038: 1, L0769: 1, L0761: 1, L0766: 1, L0774: 1, L0657: 1, H0593: 1, H0521: 1, H0555: 1, L0744: 1, L0747: 1, L0755: 1 and L0777: 1.	21q22.1- q22.2	215700, 223360, 268900, 601850 147450, 176261, 253270, 601399
HOELP29	1005359	350	3 - 1013	2525	Lys-5 to Leu-10, Ser-20 to Glu-30, Leu-32 to Thr-37.	L0755: 11, L0766: 4, L0747: 4, L0764: 2, L0663: 2, H0556: 1, H0686: 1, S0444: 1, S0408: 1, H0580: 1, H0722: 1, H0290: 1, L0483: 1, H0165: 1, H0494: 1, H0132: 1, S0150: 1, S0208: 1, L0772: 1, L0768: 1.	1p32	120950, 120960, 138140, 178300, 187040, 600101, 600650, 600650, 600722, 600722

HWLFG04	1005384	351	2 - 1015	2526	Lys-9 to Thr-17, Lys-41 to Asn-55, Leu-57 to Asn-65, Val-67 to Asn-79, Ile-122 to Cys-132, Leu-135 to Ala-147, Glu-175 to Ala-197, Pro-227 to Thr-251, Pro-253 to Gly-264, Pro-288 to Glu-296, Gln-312 to Val-321.	L0784: 1, L0805: 1, H0547: 1, S0126: 1, H0659: 1, H0660: 1, H0627: 1, L0749: 1, L0779: 1, L0731: 1, L0757: 1 and H0668: 1, S0358: 3, H0539: 3, L0659: 2, L0664: 2, S0354: 1, S0360: 1, S0408: 1, S0007: 1, H0318: 1, S0474: 1, H0596: 1, H0266: 1, H0412: 1, L0369: 1, L0640: 1, L0656: 1, L0666: 1, L0663: 1, H0144: 1, H0648: 1, S0044: 1, L0755: 1, L0588: 1, L0592: 1, L0608: 1, L0362: 1 and H0423: 1.	7p15	138079, 138079, 139191, 142959, 153880, 180104, 600994, 601649
HYAAC49	1005511	352	2 - 781	2527		AR089: 5, AR096: 5, AR053: 4, AR060: 3, AR039: 3, AR033: 3, AR055: 2, AR104: 2, AR061: 1 H0583: 1 and H0036: 1.		
HCOOA71	1005843	353	68 - 205	2528	Thr-34 to Ser-46.	L0777: 8, L0809: 4, L0749: 4, H0038: 3, L0769: 3, L0783: 3,		

HOUEB45	1005974	354	879 - 478	2529	Ser-1 to Ser-7, Gly-21 to Arg-37.	L0740: 3, H0581: 2, H0546: 2, H0024: 2, L0521: 2, L0375: 2, H0670: 2, L0748: 2, L0758: 2, L0759: 2, H0171: 1, S0360: 1, H0351: 1, L0622: 1, H0052: 1, H0424: 1, H0617: 1, H0087: 1, H0059: 1, H0494: 1, H0646: 1, L0369: 1, L0763: 1, L0766: 1, L0776: 1, L0657: 1, L0789: 1, L0666: 1, L0663: 1, L0565: 1, H0658: 1, L0439: 1, L0750: 1, L0753: 1 and L0757: 1.	22q11.23	123620, 600850
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HUSIII4	1006018	355	399 - 2081	2530	Lys-5 to Met-10, Lys-79 to Ser-86, Ser-145 to Leu-154.	L0657: 1, L0656: 1, L0783: 1, L0791: 1, L0666: 1, L0663: 1, L0438: 1, H0547: 1, H0672: 1, H0436: 1, L0748: 1, L0747: 1, L0749: 1, L0777: 1, L0758: 1 and L0608: 1.		
						L0439: 13, L0777: 9, L0717: 8, L0748: 6, L0659: 5, L0747: 4, H0318: 3, L0665: 3, L0779: 3, H0170: 2, H0212: 2, L0455: 2, L0764: 2, L0662: 2, L0768: 2, L0766: 2, L0775: 2, L0655: 2, H0520: 2, H0672: 2, L0746: 2, L0755: 2, L0758: 2, L0759: 2, L0595: 2, H0624: 1, H0171: 1, H0685: 1, H0661: 1, H0402: 1, S0046: 1, H0333: 1, T0109: 1, H0013: 1, S0280: 1, L0021: 1, H0590: 1, H0581: 1, H0374: 1, H0596: 1, L0471: 1, H0014: 1, S0051: 1, S0003: 1.		

HMCDDB21	1006055	356	411 - 509	2531	Asn-1 to Arg-13.	H0328: 1, H0617: 1, H0040: 1, H0412: 1, H0494: 1, H0641: 1, L0761: 1, L0645: 1, L0773: 1, L0521: 1, L0375: 1, L0651: 1, L0805: 1, L0776: 1, L0526: 1, L0783: 1, L0809: 1, L0789: 1, L0666: 1, L0664: 1, H0701: 1, L0352: 1, H0547: 1, H0658: 1, H0670: 1, H0648: 1, H0651: 1, H0436: 1, L0740: 1, L0754: 1, L0752: 1, L0757: 1, L0591: 1, L0592: 1 and H0293: 1.		
HSDEY08	1006142	357	594 - 1136	2532	Leu-25 to Phe-35, Lys-48 to Asp-54, Arg-62 to Phe-72, Tyr-92 to Leu-99.	L0794: 2, L0776: 2, L0745: 2, L0758: 2, S0260: 2, S0142: 1, L0500: 1 and H0648: 1. L0534: 10, L0747: 10, L0769: 8, L0751: 7, L0592: 5, H0545: 4, L0770: 4, L0761: 4, L0438: 4, H0599: 3, T0010: 3, H0553: 3, L0646: 3, H0547: 3, S0028: 3, H0101: 2,		



H0546: 2, H0050: 2, L0662: 2, L0794: 2, L0774: 2, L0378: 2, S0380: 2, L0752: 2, L0755: 2, L0758: 2, S0436: 2, L0603: 2, S0040: 1, H0295: 1, H0255: 1, S0418: 1, S0444: 1, S0360: 1, S0408: 1, H0580: 1, H0559: 1, H0156: 1, H0575: 1, H0706: 1, H0253: 1, H0457: 1, H0562: 1, H0566: 1, H0081: 1, L0471: 1, H0373: 1, H0083: 1, S6028: 1, H0266: 1, H0271: 1, S0250: 1, H0428: 1, H0617: 1, H0124: 1, H0708: 1, S0366: 1, H0135: 1, H0087: 1, H0551: 1, H0264: 1, H0488: 1, H0623: 1, T0041: 1, H0429: 1, H0561: 1, H0132: 1, H0130: 1, L0796: 1, L0639: 1, L0667: 1, L0764: 1, L0765: 1, L0768: 1, L0651: 1, L0805: 1,							
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HO0JT92	1006215	358	41 - 172	2533	Ser-9 to Glu-18, Asp-22 to Asp-30.	L0776: 1, L0636: 1, L0809: 1, L0791: 1, L4501: 1, L0666: 1, L0663: 1, L0665: 1, S0428: 1, H0693: 1, H0520: 1, H0519: 1, H0690: 1, H0684: 1, H0670: 1, H0660: 1, H0648: 1, H0521: 1, H0134: 1, H0436: 1, L0612: 1, S0037: 1, L0742: 1, L0743: 1, L0744: 1, L0748: 1, L0439: 1, L0777: 1, L0780: 1, L0757: 1, L0759: 1, S0031: 1, S0434: 1 and S0192: 1.		
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HNORE03	1006250	359	1 - 669	2534	Lys-54 to Asp-62, Pro-102 to Gly-109, Gln-121 to Thr-134, Lys-159 to Leu-165, Thr-190 to Asn-196	H0623: 1, H0059: 1, S0112: 1, T0042: 1, H0561: 1, H0646: 1, H0652: 1, H0538: 1, L0763: 1, L0765: 1, L0648: 1, L0768: 1, L0803: 1, L0775: 1, L0375: 1, L0783: 1, L0530: 1, L0367: 1, L0663: 1, H0144: 1, H0519: 1, H0682: 1, H0659: 1, H0658: 1, H0648: 1, H0651: 1, S0378: 1, H0521: 1, L0611: 1, S0028: 1, L0750: 1, L0779: 1, L0777: 1, L0757: 1, L0758: 1, S0196: 1, H0542: 1, H0423: 1, H0422: 1, H0677: 1 and H0506: 1.		
						L0770: 2, L0662: 2, L4501: 2, H0521: 2, L0731: 2, L0758: 2, H0351: 1, S0222: 1, H0587: 1, H0687: 1, H0169: 1, H0412: 1, L0805: 1, L0666: 1, H0723: 1, H0691: 1, H0520: 1, H0659: 1,		

HPCTS21	1006317	360	117 - 1754	2535	Arg-8 to Ser-35, Leu-40 to Cys-77.	S0330: 1, L0755: 1, L0759: 1, H0707: 1, L0608: 1, H0543: 1 and H0423: 1.  L0766: 6, L0754: 6, L0779: 4, H0486: 3, L0665: 3, S0440: 2, L0756: 2, L0731: 2, L0758: 2, H0624: 1, H0717: 1, H0738: 1, H0125: 1, S0376: 1, S0360: 1, H0581: 1, L0157: 1, L0471: 1, S0250: 1, S0003: 1, H0316: 1, S0422: 1, L0769: 1, L0387: 1, L0803: 1, L0805: 1, L0776: 1, L0606: 1, L0659: 1, L0518: 1, L0793: 1, L0664: 1, H0689: 1, H0659: 1, H0658: 1, H0672: 1, S0328: 1, S0136: 1, H0134: 1, H0436: 1, H0732: 1, L0751: 1, L0777: 1, L0755: 1, L0759: 1, S0436: 1, H0422: 1 and S0412: 1.
HFATL31	1006399	361	2 - 508	2536	Leu-17 to Arg-37, Pro-50 to Ser-77.	H0052: 2, H0620: 2, H0729: 1, S0300: 1,

HE2JE77	1006445	362	2 - 331	2537	Arg-85 to Gln-91, Glu-148 to Glu-153.	H0462: 1, H0550: 1, H0441: 1, H0333: 1, H0618: 1, S0010: 1, H0309: 1, H0032: 1, H0673: 1, H0124: 1, S0366: 1, S0036: 1, L0637: 1, S014: 1, L0742: 1, L0743: 1, L0740: 1, L0750: 1, L0753: 1 and L0758: 1.		
HCBNX87	1006470	363	948 - 529	2538	Gly-67 to Leu-76, Cys-83 to Arg-89, Glu-96 to Asn-102. Gly-16 to Asn-31, Ala-36 to Ser-41, Glu-93 to Pro-100, Lys-135 to Gln-140.	L0521: 2, H0624: 1, H0539: 1 and H0555: 1.		
HNTD168	1006483	364	3 - 653	2539	Val-9 to Ser-15, Phe-34 to Tyr-41,	H0693: 44, L0604: 5, S0366: 4, L0805: 4, H0637: 3, L0766: 3, H0672: 3, H0549: 2, H0271: 2, L0777: 2, H0661: 1, H0580: 1, H0173: 1, H0620: 1, H0428: 1, S0364: 1, L0641: 1, L0644: 1, L0655: 1, L0809: 1, L0791: 1, L0666: 1, L0663: 1, T0068: 1, H0576: 1, L0780: 1, L0731: 1, L0584: 1 and H0543: 1. AR052: 6, AR053: 5, AR055: 3, AR089: 3,		

HTRAA05	1006512	365	19 - 327	2540	Glu-59 to Glu-75, Leu-94 to Asn-99, Asp-142 to Cys-152, Lys-166 to Leu-172, Lys-188 to Asn-194, Pro-212 to Ala-217.	AR033: 3, AR096: 3, AR061: 2, AR039: 2, AR060: 2, AR104: 2 H0615: 3, H0393: 1, H0441: 1, T0109: 1, H0318: 1, H0570: 1, H0566: 1, H0551: 1, H0625: 1, L0761: 1, L0766: 1, L0803: 1, L0784: 1, H0144: 1, H0539: 1, H0696: 1, L0744: 1, L0740: 1 and L0777: 1.		
HMTAL96	1006635	366	1767 - 1321	2541	Pro-11 to Phe-16, Ala-59 to Asp-66, Ala-9 to Leu-20, Arg-70 to Thr-75, Pro-129 to Gly-139.	T0002: 1, H0164: 1 and L0761: 1. L0747: 6, L0754: 4, L0752: 4, S0280: 3, H0615: 3, L0766: 3, L0803: 3, L0805: 3, L0809: 3, L0740: 3, L0750: 3, L0731: 3, H0050: 2, L0471: 2, H0628: 2, H0032: 2, S0426: 2, H0648: 2, S0027: 2, L0779: 2, L0757: 2, L0759: 2, L0485: 2, H0656: 1, S0029: 1, S0356: 1, S0358: 1, S0376: 1, S0408: 1, H0580: 1.		

HDTJP21	1006858	367	55 - 246	2542	Ile-3 to Ile-10, Pro-40 to Val-64.	S0046: 1, H0645: 1, S0222: 1, H0592: 1, H0486: 1, H0427: 1, H0042: 1, H0036: 1, H0004: 1, H0581: 1, H0434: 1, H0052: 1, T0110: 1, H0545: 1, S0051: 1, H0375: 1, H0328: 1, L0483: 1, H0030: 1, H0644: 1, H0090: 1, H0551: 1, H0100: 1, H0633: 1, S0344: 1, S0002: 1, L0761: 1, L0764: 1, L0521: 1, L0363: 1, L0774: 1, L0775: 1, L0558: 1, L0659: 1, L0782: 1, L0787: 1, H0691: 1, H0658: 1, H0651: 1, S0330: 1, H0539: 1, S0380: 1, H0518: 1, S0013: 1, H0555: 1, S3014: 1, L0748: 1, L0439: 1, L0749: 1, L0758: 1, S0031: 1, L0599: 1, L0362: 1, S0196: 1 and H0422: 1.		
						H0615: 2 and H0486: 1.		



HISEQ81	1006943	368	298 - 2	2543	Glu-8 to Tyr-18, Asn-29 to Lys-35, Lys-62 to Ile-67, His-88 to Pro-99.	H0539: 2		
HODFH02	1006953	369	334 - 393	2544		H0615: 3		
HOCPP18	1007230	370	290 - 571	2545	Pro-11 to Phe-19, Phe-41 to Ser-54.	L0748: 3, L0471: 2, L0766: 2, L0752: 2, S0358: 1, H0357: 1, H0486: 1, H0270: 1, H0575: 1, S0182: 1, S0049: 1, T0067: 1, H0412: 1, H0560: 1, S0144: 1, S0326: 1, H0538: 1, S0422: 1, S0426: 1, L0764: 1, H0660: 1, H0521: 1, S0432: 1, L0740: 1, L0751: 1, L0754: 1, L0745: 1, L0747: 1, L0777: 1, L0731: 1, H0445: 1, L0608: 1 and H0667: 1	14q21	182600, 232700, 602086, 602616
HODFP91	1007941	371	3 - 1016	2546	Glu-10 to Ser-19, His-41 to Lys-50, Glu-80 to Leu-86, Ser-142 to Leu-147, Lys-153 to Lys-161, Tyr-167 to Leu-175, Ser-177 to Asn-188, Gln-199 to Arg-228.	L0777: 4, L0517: 3, L0740: 3, L0599: 3, S0354: 2, H0615: 2, L0521: 2, L0663: 2, L0779: 2, L0591: 2, T0002: 1, H0013: 1, H0427: 1, H0553: 1, H0038: 1, L0520: 1,		

HGEDU06	1007976	372	18 - 449	2547	Gln-257 to Glu-262, Asp-274 to Ser-279.	L0769: 1, L0638: 1, L0518: 1, L0809: 1, H0547: 1, L0439: 1, L0747: 1 and H0444: 1. H0686: 1, H0559: 1 and S0028: 1.		
HPCRD26	1008013	373	81 - 1334	2548	Pro-6 to Leu-11, Glu-90 to Asn-95, Val-102 to Val-107, Ala-120 to Glu-126, Ala-132 to Thr-144, Gly-8 to Asp-16, Gly-71 to Pro-77, Met-98 to Tyr-105, Lys-129 to Arg-146, Gln-177 to Val-186, Gln-192 to Trp-216, Pro-223 to Asp-237, Ala-251 to Ser-258, Arg-287 to Arg-292, Met-323 to Gly-331.	AR053: 1, AR104: 1, AR061: 1, AR033: 1, AR060: 0, AR096: 0, AR039: 0, AR089: 0, AR052: 0, AR055: 0		
HSIEH63	1008027	374	3 - 554	2549	His-1 to Pro-7, Lys-43 to Asp-59, Thr-122 to Tyr-133, Gly-152 to Thr-160.	AR039: 9, AR089: 4, AR060: 4, AR055: 4, AR061: 3, AR033: 3, AR104: 3, AR053: 3, AR096: 1 S0354: 2, S0360: 1, H0036: 1, H0596: 1 and S0374: 1.		
HPASD51	1008071	375	3 - 752	2550	Glu-26 to Gly-31, Gly-33 to Trp-40, Ala-169 to Glu-175.	AR052: 51, AR061: 46, AR033: 35, AR053: 28, AR104: 26, AR055:		

					Gly-199 to Gly-204, 21	25, AR096: 25, AR060: 24, AR089: 23, AR039: 21 S0380: 5, L0748: 4, H0648: 3, S0378: 3, L0752: 3, L0766: 2, L0803: 2, L0665: 2, L0750: 2, H0661: 1, H0461: 1, H0270: 1, H0039: 1, H0622: 1, L0761: 1, L0657: 1, L0532: 1, L0666: 1, H0689: 1, S0330: 1, L0749: 1 and L0777: 1.			
HCOQH27	1008154	376	95 - 1315	2551	Gly-28 to Pro-34, Lys-39 to Glu-47, Ala-63 to Cys-68, Asn-101 to Gly-111, Leu-144 to His-161, Asp-234 to Trp-245, Phe-396 to Ser-407.	L0803: 5, L0439: 5, L0750: 5, L0774: 4, H0657: 3, H0046: 3, H0687: 3, H0031: 3, L0773: 3, L0794: 3, L0776: 3, L0655: 3, L0657: 3, L0790: 3, L0438: 3, L0747: 3, L0731: 3, H0656: 2, H0042: 2, L0761: 2, L0764: 2, L0654: 2, S0152: 2, L0751: 2, L0749: 2, L0777: 2, L0759: 2, L0592: 2, H0543: 2, S6024: 1, H0341: 1, S0212: 1,	12		

S0420: 1, S0358: 1, S0360: 1, S0410: 1, H0637: 1, H0208: 1, S0045: 1, S0046: 1, H0393: 1, S0278: 1, H0369: 1, H0441: 1, H0357: 1, H0613: 1, H0039: 1, H0013: 1, H0427: 1, H0575: 1, S0010: 1, S0346: 1, H0209: 1, H0123: 1, H0024: 1, S0051: 1, H0010: 1, H0061: 1, H0266: 1, H0553: 1, H0598: 1, S0036: 1, H0038: 1, H0551: 1, H0264: 1, H0059: 1, L0351: 1, T0041: 1, L0475: 1, L0762: 1, L0631: 1, L0638: 1, L0643: 1, L0766: 1, L0804: 1, L0775: 1, L0375: 1, L0805: 1, L0791: 1, L0663: 1, S0126: 1, H0670: 1, H0660: 1, H0672: 1, H0521: 1, H0522: 1, H0696: 1, H0704: 1, S0044: 1, L0756: 1, L0757: 1, L0758: 1,							
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HNTBU30	1008177	377	2 - 2737	2552	Leu-40 to Val-46, Gly-83 to Gln-89, Lys-123 to Gly-129	L0588: 1, L0591: 1, L0485: 1, H0542: 1, H0423: 1, H0422: 1 and H0293: 1.  L0770: 7, L0777: 7, S0406: 5, L0439: 5, L0758: 4, H0639: 3, H0717: 2, H0494: 2, L0598: 2, L0764: 2, L0655: 2, H0547: 2, H0521: 2, H0478: 2, L0748: 2, L0731: 2, L0595: 2, L0411: 1, H0657: 1, H0656: 1, H0663: 1, S0358: 1, H0329: 1, H0645: 1, H0639: 1, H0415: 1, H0455: 1, H0156: 1, L0021: 1, H0052: 1, T0110: 1, L0471: 1, H0687: 1, S0250: 1, H0428: 1, H0553: 1, H0166: 1, H0598: 1, H0040: 1, H0551: 1, S0386: 1, H0560: 1, H0509: 1, H0538: 1, UNKWN: 1, L0763: 1, L0638: 1, L0646: 1, L0662: 1, L0364: 1, L0803: 1, L0659: 1,		
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HCOPZ14	1008179	378	763 - 1083	2553		L0636: 1, L0783: 1, L0666: 1, H0520: 1, H0519: 1, S0122: 1, H0435: 1, H0518: 1, H0694: 1, H0555: 1, H0436: 1, L0747: 1, L0749: 1, L0779: 1, L0752: 1, L0755: 1, S0031: 1, L0485: 1, H0422: 1 and H0506: 1. H0556: 3, S0474: 2, H0622: 2, H0634: 2, S0434: 2, H0265: 1, H0254: 1, H0663: 1, S0046: 1, H0602: 1, H0586: 1, H0069: 1, H0575: 1, H0581: 1, H0251: 1, S0051: 1, H0617: 1, H0494: 1, H0670: 1, S0152: 1, L0748: 1 and L0603: 1.	1q32-q41	114208, 114208, 119300, 120620, 120620, 120920, 134370, 134370, 134370, 134580, 145260, 150310, 150310, 179820, 191045, 276901, 600105, 600332, 600759, 601494,
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HODEC78	1008299	379	1 - 1209	2554	Arg-1 to Cys-8, Ala-11 to Thr-22, Pro-87 to Leu-99, Lys-120 to Glu-144, Leu-179 to Lys-200, Glu-212 to Lys-221, Tyr-280 to Arg-287, Lys-292 to Gly-299, Val-314 to Ser-320, Pro-322 to Pro-340.	H0615: 2, L0766: 2, L0755: 2, L0471: 1, H0356: 1, T0023: 1, L0761: 1, L0794: 1, L0787: 1, L0789: 1, H0519: 1, L0745: 1, L0746: 1, L0591: 1 and L0593: 1.	12p11.2- p11.1	601744, 601975 112410, 135700, 168470, 200990	
HODEF29	1008304	380	26 - 169	2555	His-8 to Gly-18.	H0615: 1			
HODFB71	1008307	381	369 - 671	2556	Lys-54 to Arg-59, Arg-66 to Arg-71.	L0805: 2, S0134: 1, H0486: 1, H0251: 1, H0235: 1, S0022: 1, H0615: 1, L0667: 1, L0776: 1, L0789: 1, L0758: 1 and H0423: 1.			
HODEF78	1008314	382	3 - 218	2557	Thr-4 to Ser-11, Pro-25 to Ala-31, Thr-38 to His-44.	H0615: 1			
HODEL83	1008324	383	3 - 416	2558	Ser-2 to Thr-13, Ile-16 to Ser-26, Pro-28 to Glu-36, Glu-41 to Pro-47, Pro-106 to Asp-111, Trp-127 to Thr-132.	H0615: 3			
HHPSH76	1008325	384	244 - 1206	2559	Ser-2 to Ser-7, Leu-51 to Arg-56.	L0776: 9, L0769: 4, L0789: 4, L0773: 3.			

						Lys-142 to Ser-149, His-178 to Ser-187, Tyr-261 to Gly-267, Arg-272 to Asp-292.	L0774: 3, L0750: 3, L0761: 2, L0771: 2, L0803: 2, L0807: 2, L0565: 2, L0745: 2, S0376: 1, H0549: 1, H0453: 1, H0587: 1, S0010: 1, S0324: 1, H0201: 1, H0687: 1, H0428: 1, H0538: 1, L0763: 1, L0770: 1, L0800: 1, L0643: 1, L0764: 1, L0794: 1, L0766: 1, L0775: 1, L0806: 1, S0328: 1, H0521: 1, L0780: 1, L0758: 1, L0759: 1, L0605: 1 and S0462: 1.		
HBCBES2	1008326	385	782 - 663	2560		Gly-1 to Glu-26, Val-28 to Leu-35.	H0181: 2, L0599: 2, H0014: 1, L0365: 1, L0665: 1, S0052: 1, S0216: 1, H0684: 1, S0152: 1, S0188: 1, H0345: 1 and L0366: 1.		
HBCQAB30	1008327	386	3 - 737	2561		Asn-40 to Arg-68, Ser-86 to Ala-92, Ile-129 to Lys-145, Glu-162 to Ala-175, Glu-181 to Thr-204, Ser-206 to Lys-214, Leu-222 to Thr-231.	H0551: 2, S0354: 1, H0229: 1, S0049: 1, H0135: 1, H0529: 1 and S0028: 1.		



HLHCB31	1008332	387	1 - 558	2562	Asn-7 to Lys-19.	L0750: 4, L0777: 3, L0758: 3, S0354: 2, S0360: 2, H0039: 2, H0622: 2, H0617: 2, L0666: 2, H0520: 2, L0756: 2, L0759: 2, S0358: 1, H0549: 1, H0253: 1, H0009: 1, L0471: 1, H0620: 1, H0024: 1, H0083: 1, H0688: 1, L0142: 1, H0135: 1, H0038: 1, H0100: 1, H0646: 1, L0763: 1, L0761: 1, L0764: 1, L0662: 1, L0767: 1, L0794: 1, L0653: 1, L0659: 1, L0809: 1, L0665: 1, H0144: 1, H0547: 1, H0672: 1, L0741: 1, L0743: 1, L0744: 1, L0753: 1 and S0276: 1.	L0750: 4, S0007: 2, H0014: 2, H0616: 2, L0005: 1, H0574: 1, H0632: 1, H0156: 1, H0169: 1, L0769: 1, L0805: 1, L0647: 1, H0648: 1, L0779: 1 and L0758: 1.	114835, 118470, 132700, 172490, 209900, 600968
HPFDV51	1008335	388	22 - 216	2563	Thr-5 to His-10, Pro-28 to Thr-40, Lys-46 to His-54.			16q13- 16q21

HTEDY04	1008336	389	2 - 832	2564	Arg-2 to Gly-9, Arg-38 to Lys-46, Ser-53 to Ser-73, Asp-79 to Ala-84, Leu-129 to Glu-136, Leu-202 to Arg-210, Glu-216 to Ala-231, Glu-234 to Glu-254, Lys-259 to Leu-265.	L0803: 8, L0758: 8, L0809: 6, L0748: 6, H0038: 5, L0439: 5, H0616: 4, H0670: 4, L0756: 4, L0731: 4, L0794: 3, L0750: 3, L0770: 2, L0805: 2, L0776: 2, L0602: 2, L0779: 2, S0276: 2, S0282: 1, S0410: 1, H0369: 1, H0549: 1, H0618: 1, H0252: 1, H0615: 1, H0424: 1, H0213: 1, H0032: 1, H0212: 1, H0068: 1, T0067: 1, S0438: 1, L0769: 1, L0638: 1, L0804: 1, L0775: 1, L0806: 1, L0527: 1, L0782: 1, L0788: 1, L0789: 1, L0666: 1, L0664: 1, L0665: 1, H0658: 1, H0672: 1, S3012: 1, L0751: 1, L0745: 1, L0777: 1, L0780: 1, L0759: 1 and L0581: 1.	lp35.1	118210, 120550, 120570, 120575, 121800, 130500, 133200, 171760, 185470, 230350, 255800, 602771
HODEG13	1008337	390	2 - 166	2565	Gln-2 to His-10, Lys-21 to Glu-33.	H0615: 3		
HHPFK16	1008345	391	109 - 435	2566		H0663: 1, H0125: 1,		

HARAL81	1008349	392	220 - 20	2567	Ser-24 to Ala-30, - Arg-55 to Ser-62.	S0418: 1, S0356: 1, H0051: 1, H0648: 1 and H0543: 1, L0752: 6, L0663: 5, L0646: 3, L0754: 3, L0747: 3, H0031: 2, L0794: 2, H0659: 2, H0658: 2, L0748: 2, H0556: 1, H0657: 1, L0005: 1, S0354: 1, S0358: 1, S0410: 1, H0637: 1, H0441: 1, H0455: 1, T0082: 1, H0615: 1, S0440: 1, H0633: 1, S0344: 1, S0426: 1, H0529: 1, L0770: 1, L0769: 1, L0637: 1, L0374: 1, L0771: 1, L0648: 1, L0662: 1, L0766: 1, L0650: 1, L0774: 1, L0775: 1, L0805: 1, L0776: 1, L0655: 1, L0542: 1, L0782: 1, L0809: 1, L0666: 1, L0664: 1, L0665: 1, L0352: 1, H0648: 1, H0521: 1, H0696: 1, S0406: 1, L0740: 1, L0749: 1, L0731: 1 and
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HFTA U42	1008350	393	987 - 1100	2568		H0444: 1, S0360: 2, H0123: 2, L0649: 2, L0803: 2, L0666: 2, L0740: 2, L0747: 2, L0750: 2, L0755: 2, H0624: 1, S0418: 1, H0393: 1, H0553: 1, H0124: 1, H0090: 1, S0440: 1, H0646: 1, S0142: 1, L0662: 1, L0776: 1, L0659: 1, L0665: 1, L0438: 1, H0547: 1, H0519: 1, H0659: 1, H0658: 1, H0648: 1, L0777: 1, L0752: 1, H0445: 1, L0599: 1, S0242: 1 and H0542: 1.		
HEITDA81	1008358	394	3 - 377	2569	Thr-5 to Ser-12, Thr-74 to Pro-80.	H0046: 2 and H0648: 1.		
HODEI92	1008359	395	1 - 495	2570	His-31 to Asp-45, Glu-56 to Ser-64, Pro-118 to Asp-131.	L0747: 4, L0751: 3, H0615: 2, L0794: 2, L0663: 2, H0659: 2, L0777: 2, L0596: 2, H0341: 1, H0333: 1, H0510: 1, H0328: 1, H0039: 1, L0764: 1, L0657: 1, H0658: 1, S0328: 1 and L0758: 1.		
HODEB58	1008372	396	3 - 455	2571	Thr-25 to Ser-36.	H0360: 14, L0809: 11,		

L0747: 9, L0749: 9, L0777: 9, L0803: 8, L0731: 8, L0774: 7, L0794: 6, S0408: 5, L0783: 5, L0775: 4, L0438: 4, H0648: 4, L0756: 4, L0623: 3, H0575: 3, L0471: 3, H0373: 3, H0615: 3, L0520: 3, L0768: 3, S0126: 3, S0328: 3, S0406: 3, L0779: 3, L0758: 3, S0116: 2, S0444: 2, S0360: 2, H0393: 2, S0222: 2, H0156: 2, T0082: 2, H0052: 2, H0014: 2, H0494: 2, S0440: 2, L0763: 2, L0769: 2, L0764: 2, L0517: 2, H0684: 2, H0670: 2, H0672: 2, H0539: 2, L0740: 2, L0753: 2, L0757: 2, L0759: 2, S0031: 2, L0588: 2, L0581: 2, L0595: 2, S0424: 2, H0171: 1, T0002: 1, H0218: 1, H0685: 1, S0342: 1, S0402: 1, T0049: 1,						
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HODEG86	1008379	397	411 - 548	2572		Lys-1 to Lys-6,	H0615: 3			
HODFA57	1008396	398	138 - 221	2573		Leu-10 to Asp-17, Pro-19 to Arg-28.	H0615: 4			
HODFB31	1008401	399	1 - 276	2574		Pro-35 to Lys-40, Glu-72 to Gly-77, Pro-85 to Val-90.	H0615: 2, S0278: 1, S0002: 1, H0555: 1 and S0026: 1.			
HTEMP79	1008406	400	317 - 658	2575		Leu-14 to Ser-19.	L0758: 6, L0779: 4, H0038: 3, H0616: 2, L0593: 2, H0644: 1, L0794: 1 and L0594: 1.			
HODEI59	1008423	401	161 - 1291	2576		His-6 to Ser-11, Ser-122 to Asn-128, Leu-216 to Asp-221, Ser-323 to His-328.	H0031: 12, H0521: 11, H0542: 11, L0745: 9, H0266: 7, H0547: 7, H0551: 6, H0013: 5, S0152: 5, T0049: 4, H0169: 4, H0494: 4,	20q12-q13.1256540, 600281, 600281		

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HODEF94	1008429	402	2 - 94	2577	Pro-19 to Ser-29.		H0613: 2, H0090: 1, S0002: 1 and H0478: 1.			
HPFCZ53	1008445	403	236 - 769	2578	Lys-1 to Lys-23.		L0754: 40, L0740: 8, H0295: 2, H0663: 2, H0169: 2, H0068: 2, L0770: 2, L0662: 2, L0789: 2, L0748: 2, L0751: 2, L0755: 2, L0589: 2, S0420: 1, L0005: 1, H0586: 1, H0156: 1, H0032: 1, H0100: 1, H0494: 1, L0803: 1, L0806: 1, L0809: 1, H0660: 1, H0672: 1, S0152: 1, L0744: 1, L0779: 1, L0777: 1, L0780: 1, L0591: 1, L0593: 1 and L0601: 1.	6p24		134570
HWACN71	1008764	404	96 - 1268	2579	Val-7 to Gly-14, Lys-46 to Ala-52, Leu-82 to Phe-89, Lys-94 to Ser-99, Pro-101 to Arg-108,		AR096: 7, AR053: 5, AR089: 4, AR039: 3, AR060: 2, AR055: 2, AR052: 2, AR033: 2, AR061: 2, AR104: 2			

					Ala-123 to Gly-129, Lys-154 to Gly-164, Arg-274 to Glu-287, Asp-294 to Thr-309, Gln-324 to Ala-334, Pro-343 to Asn-359, Lys-368 to Glu-385.	H0457: 2, H0494: 2, H0740: 1, H0581: 1, H0083: 1, L0770: 1, L0769: 1, L0764: 1, L0791: 1 and H0727: 1.		
HOFMU69	1009017	405	342 - 1151	2580	Ser-70 to Trp-88, Lys-154 to Asp-161, Tyr-265 to Lys-270.	AR039: 17, AR052: 11, AR104: 7, AR033: 7, AR096: 7, AR053: 6, AR089: 6, AR060: 3, AR061: 3, AR055: 3		
HSKNP59	1009095	406	417 - 554	2581	Pro-10 to Pro-16.	H0415: 2 AR039: 15, AR089: 10, AR053: 10, AR096: 9, AR055: 8, AR060: 7, AR033: 6, AR061: 5, AR104: 4 L0510: 3, L0504: 1, L0502: 1, L0499: 1, L0514: 1, L0512: 1 and S3012: 1.		
HETBR71	1009343	407	155 - 658	2582	Lys-5 to Phe-58.	L0731: 10, L0759: 6, L0782: 4, L0774: 3, H0046: 2, H0620: 2, L0598: 2, L0769: 2, L0805: 2, L0663: 2, S0380: 2, L0754: 2, L0756: 2, H0170: 1,	Xq22.1	301201, 301835, 311850

HE2ES17	1009349	408	3 - 914	2583	Glu-1 to Glu-13.	H0384: 1, H0484: 1, H0664: 1, S0358: 1, S0360: 1, S0410: 1, H0580: 1, H0549: 1, S0222: 1, H0427: 1, H0156: 1, S0010: 1, H0194: 1, H0545: 1, H0375: 1, H0644: 1, S0366: 1, H0038: 1, S0210: 1, L0631: 1, L0800: 1, L0764: 1, L0662: 1, L0766: 1, L0775: 1, L0375: 1, L0776: 1, L0659: 1, L0647: 1, H0144: 1, H0547: 1, H0660: 1, H0672: 1, S0330: 1, H0539: 1, S0152: 1, S0044: 1, H0694: 1, S0406: 1, L0779: 1, L0758: 1, L0605: 1 and H0653: 1		
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HELM06	1009362	409	14 - 349	2584	Asp-57 to Ala-62, Gly-98 to Pro-112.	L0598: 1, L0649: 1, L0666: 1, H0660: 1, H0648: 1, H0672: 1, H0696: 1, H0555: 1, L0779: 1, L0755: 1, L0592: 1 and S0192: 1. S0045: 1		
HE2AG50	1009365	410	43 - 132	2585	Gly-1 to Ser-6, Pro-20 to Ile-30.	AR089: 1, AR033: 1, AR060: 0, AR096: 0, AR061: 0, AR055: 0, AR039: 0 H0170: 1, H0574: 1, H0052: 1, H0048: 1 and L0766: 1.		
HE2ES61	1009388	411	555 - 427	2586		H0305: 2, L0663: 2, H0170: 1, S0003: 1, L0803: 1 and H0651: 1.		
HE2SO43	1009398	412	1 - 408	2587	Pro-65 to Lys-70, His-112 to Gly-131.	H0624: 1		
HLHC107	1009403	413	91 - 2	2588	Arg-5 to Gly-11.	H0208: 1, H0123: 1 and H0024: 1.	13q	
HTTBR65	1009414	414	1 - 357	2589	Gly-3 to Thr-9, Arg-30 to Gly-39.	H0305: 1 and H0040: 1.	17q21	109270, 109270, 109270, 109270, 109270, 113705, 113705, 144200,

HPFCV71	1009453	415	434 - 586	2590				H0328: 1, H0615: 1, H0169: 1, L0807: 1 and L0754: 1, H0125: 1		148065, 148066, 148066, 148067, 148067, 148069, 148080, 154275, 168610, 171190, 176705, 185800, 200350, 221820, 232200, 249000, 252920, 253250, 600119, 600119, 601363, 601844
HCABR46	1009479	416	169 - 423	2591	Ala-9 to Gln-19, Glu-40 to Asn-46, Asp-55 to Ser-66.			H0125: 1	19p13.2	108725, 120700, 133171, 143890, 147670,

HCRCB80	1009482	417	78 - 479	2592	Gln-34 to Ala-45, Glu-47 to Leu-52, Lys-113 to Gln-121.	H0170: 1, H0327: 1, H0038: 1, L0758: 1 and S0276: 1.	22q13.2- q13.31	147670, 147670, 151440, 164953, 231670, 600276, 600957, 601843
HPMLW78	1009833	418	1 - 648	2593	Asn-12 to Tyr-19, Glu-33 to Glu-38, Arg-53 to Ser-62.	L0769: 4, L0751: 4, L0471: 2, H0024: 2, L0768: 2, L0748: 2, L0731: 2, L0595: 2, H0685: 1, S0001: 1, H0052: 1, H0050: 1, H0012: 1, H0644: 1, H0617: 1, H0040: 1, H0100: 1, L0637: 1, L0662: 1, L0809: 1, L0665: 1, H0547: 1, H0519: 1, L0780: 1 and L0591: 1.	1q23	104770, 107300, 107670, 131210, 134638, 136132, 145001, 146740, 146740, 146740, 146790, 173610, 176310, 186780, 191030, 227400, 227400, 601412,

HODIK75	1009842	419	3 - 428	2594	Ala-26 to Ile-34,	H0615: 2	601652, 602491
HODIX27	1009854	420	1 - 123	2595	Ser-27 to Gly-32,	H0615: 1	
HODIV85	1009857	421	366 - 166	2596	Asp-1 to Gly-9, Glu-17 to Lys-23.	H0615: 1	
HOOIO38	1009918	422	718 - 116	2597	Ala-76 to Lys-87, Glu-110 to Gln-115, Ser-123 to Lys-131, Lys-168 to Ala-174, Pro-178 to Ala-193, Ala-196 to Ala-201.	L0493: 55, L0504: 46, L0512: 42, L0510: 41, L0507: 39, L0509: 35, L0511: 30, L0502: 29, L0500: 25, L0499: 20, L0503: 19, L0498: 13, L0514: 13, H0648: 13, L0506: 10, H0341: 9, H0046: 7, L0505: 7, L0497: 7, H0670: 7, L0520: 6, H0659: 6, S0380: 6, L0508: 5, S0027: 5, S0114: 4, H0657: 4, S0045: 4, H0100: 4, L0515: 4, L0526: 4, L0664: 4, S0126: 4, H0658: 4, S0378: 4, S0028: 4, L0588: 4, L0362: 4, S0026: 4, H0333: 3, H0318: 3, H0090: 3, H0413: 3, S0142: 3, L0646: 3, S0374: 3, H0689: 3, L0750: 3,	



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HAOSI69	1009949	423	1 - 1155	2598			L0775: 1, L0651: 1, L0776: 1, L0659: 1, L0517: 1, L0540: 1, L0518: 1, L0783: 1, L0384: 1, L0541: 1, L0543: 1, L0367: 1, L0368: 1, L0532: 1, L0663: 1, L0665: 1, S0428: 1, H0691: 1, H0684: 1, H0660: 1, H0666: 1, H0672: 1, H0651: 1, H0522: 1, H0187: 1, H0576: 1, S0392: 1, S0118: 1, S0206: 1, S0032: 1, L0751: 1, L0747: 1, L0777: 1, L0752: 1, H0444: 1, L0596: 1, L0590: 1, L0604: 1, L0601: 1, H0667: 1 and H0293: 1.	11q13	102200, 106100, 131100, 131100, 131100, 133780, 147050, 153700, 161015,
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HSDIY 67	1010157	424	3 - 692	2599	Ala-7 to Arg-18, Pro-37 to Asp-43, Asn-96 to Arg-103, Lys-115 to Ser-122,	H0059: 1, L0564: 1, S0438: 1, H0633: 1, H0646: 1, S0208: 1, S0210: 1, S0002: 1, H0529: 1, L0369: 1, L5566: 1, L0372: 1, L0642: 1, L0767: 1, L0522: 1, L0774: 1, L0655: 1, L0629: 1, L0656: 1, L0634: 1, L0659: 1, L0542: 1, L0792: 1, L0532: 1, L0666: 1, H0144: 1, H0693: 1, H0593: 1, H0689: 1, H0683: 1, H0660: 1, H0672: 1, S0330: 1, H0696: 1, S0406: 1, S0037: 1, L0743: 1, L0751: 1, L0750: 1, L0756: 1, L0780: 1, L0752: 1, L0755: 1, S0031: 1, H0445: 1, H0343: 1, L0589: 1, H0665: 1, S0192: 1, S0424: 1, S0460: 1 and S0456: 1.	H0658: 4, H0551: 3, L0439: 3, H0686: 2, H0441: 2, H0013: 2, S0152: 2, L0744: 2,
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HSDZM65	1010299	425	2 - 337	2600	Ser-18 to Thr-23, Val-91 to Gln-99.	Ile-162 to Asn-168, Arg-179 to Asp-189, Asp-206 to Asn-215, Gln-222 to Val-230.	L0759: 2, S0260: 2, S0360: 1, S0045: 1, L0394: 1, H0009: 1, L0471: 1, H0012: 1, H0620: 1, T0003: 1, H0188: 1, H0428: 1, L0564: 1, L0763: 1, L0770: 1, L0769: 1, L0637: 1, L0646: 1, L0643: 1, L0775: 1, L0805: 1, S0028: 1, L0779: 1, L0592: 1, S0276: 1, S0412: 1 and H0506: 1.		
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HPDOC39	1010400	426	144 - 608	2601	Ser-16 to Val-25, His-105 to Lys-125, Tyr-147 to Ser-155.	S0446: 1 and H0506: 1; S0360: 8, S0358: 7; H0547: 6, H0561: 5, S0126: 5, S0418: 4, L0766: 4, L0748: 4, L0755: 4, L0362: 4, H0686: 3, H0591: 3, H0521: 3, L0740: 3, L0777: 3, L0752: 3, L0731: 3, L0758: 3, H0445: 3, L0595: 3, S0196: 3, H0656: 2, H0663: 2, S0356: 2, S0376: 2, S0444: 2, S0046: 2, S0278: 2, H0331: 2, H0574: 2, H0581: 2, H0552: 2, H0046: 2, H0266: 2, S0003: 2, H0090: 2, H0623: 2, T0042: 2, H0494: 2, L0768: 2, L0803: 2, L0659: 2, L0809: 2, H0144: 2, H0520: 2, H0522: 2, L0439: 2, L0596: 2, L0591: 2, L0601: 2, H0136: 2, S0242: 2, H0423: 2, H0265: 1, H0341: 1, S0001: 1, H0305: 1, H0589: 1,		
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HE2PS15	1010525	427	3 - 236	2602	Gly-1 to Asp-8, Asp-62 to Ala-67.	S0406: 1, L0754: 1, L0747: 1, L0750: 1, L0786: 1, L0759: 1, S0260: 1, S0026: 1, H0542: 1, H0543: 1, H0422: 1 and S0452: 1. AR104: 72, AR060: 48, AR089: 29, AR055: 25, AR096: 16, AR061: 10 L0755: 9, L0757: 8, L0519: 6, L0748: 6, L0763: 5, L0774: 5, L0779: 5, H0657: 4, S0222: 4, L0471: 4, L0766: 4, H0670: 4, L0588: 4, S0408: 3, S0438: 3, L0520: 3, L0769: 3, S0374: 3, H0352: 3, H0686: 2, H0341: 2, S0444: 2, S0360: 2, S0046: 2, H0261: 2, H0333: 2, L0622: 2, H0494: 2, S0422: 2, L0767: 2, L0768: 2, L0775: 2, L0809: 2, H0659: 2, S0328: 2, H0696: 2, S0406: 2, L0747: 2, L0750: 2, L0731: 2,	14q32.33	14q120, 147020, 147110
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HTTKH22	1010596	428	266 - 1396	2603	Ser-42 to Pro-49, Asp-86 to Gly-92, Lys-97 to Glu-109.	L0783: 1, L0663: 1, S0216: 1, L0565: 1, S0126: 1, H0682: 1, H0684: 1, H0658: 1, H0648: 1, H0672: 1, H0651: 1, S0378: 1, S0380: 1, H0710: 1, S0152: 1, H0214: 1, H0576: 1, L0745: 1, L0753: 1, L0608: 1, L0594: 1, S0194: 1, S0276: 1, H0543: 1, H0423: 1 and S0424: 1.			
						H0670: 4, H0616: 3, L0439: 3, L0758: 3, S0354: 2, H0038: 2, S0116: 1, H0402: 1, H0637: 1, S0474: 1, H0644: 1, H0673: 1, S0366: 1, H0634: 1, L0351: 1, L0638: 1, L0764: 1, L0766: 1, L0803: 1, L0775: 1, L0805: 1, L0792: 1, L0666: 1, H0520: 1, L0780: 1 and H0542: 1.			
HNOIG33	1010698	429	1209 - 490	2604	Arg-1 to Pro-15, Ser-146 to Arg-155, Leu-168 to Asp-174, Lys-181 to Thr-186,	S0040: 3, L0748: 3, S0356: 2, S0358: 2, S0360: 2, H0416: 2, L0752: 2, H0624: 1,	12q13-q14	I07777, I23829, I23940, I39350,	

HPDVK48	1011090	430	1085 - 1630	2605	Phe-226 to Pro-236.	H0265: 1, H0556: 1, S0116: 1, H0255: 1, S0376: 1, S0278: 1, H0575: 1, H0251: 1, L0471: 1, H0373: 1, S0051: 1, H0356: 1, H0687: 1, H0288: 1, H0252: 1, H0135: 1, H0634: 1, H0551: 1, S0210: 1, L0438: 1, H0658: 1, H0666: 1, S0330: 1, S014: 1, L0744: 1, L0439: 1, L0745: 1, S0260: 1, H0595: 1 and S0196: 1.	139350, 147570, 148040, 148041, 148043, 148070, 181430, 231550, 252940, 264700, 600194, 600231, 600536, 600808, 600956, 601284, 601769, 601769, 601928, 602116, 602153
						H0650: 2, H0253: 2, L0769: 2, S0116: 1, H0333: 1, H0421: 1, H0083: 1, H0166: 1, H0616: 1, S0208: 1, L0645: 1, L0655: 1, L0666: 1, H0547: 1, H0593: 1, H0689: 1, H0658: 1, S0434: 1 and	

HNORJ10	1011186	431	3 - 1628	2606	Asn-42 to Pro-48, Glu-81 to Lys-86, Val-94 to Thr-99, Lys-105 to Asp-111, Phe-129 to Glu-142, Ser-154 to Glu-160, Glu-173 to Ala-182, Gln-209 to Glu-234, Asp-259 to Asp-272, Ser-303 to Pro-311, Thr-321 to Asn-329, Ala-335 to Glu-349, Thr-371 to Gly-389, Gln-395 to Asn-405, Thr-415 to Asn-423, Asn-431 to Ser-443, Lys-475 to Gln-484, Ser-502 to Gly-507, Ile-522 to Asn-527.	H0352: 1. S0003: 17, H0551: 11, L0483: 9, H0547: 9, S0212: 7, S0152: 7, H0521: 7, H0423: 7, L0766: 6, L0666: 6, S0214: 5, S0126: 5, H0543: 5, S0420: 4, S0360: 4, H0411: 4, H0032: 4, H0598: 4, S0422: 4, L0649: 4, L0665: 4, L0757: 4, H0657: 3, S0376: 3, L0717: 3, H0574: 3, H0486: 3, H0069: 3, H0427: 3, H0581: 3, H0046: 3, H0457: 3, H0271: 3, H0622: 3, H0494: 3, L0667: 3, L0655: 3, L0659: 3, H0519: 3, H0672: 3, H0710: 3, L0754: 3, L0759: 3, L0593: 3, L0601: 3, H0422: 3, H0218: 2, S0040: 2, H0713: 2, H0717: 2, H0650: 2, H0656: 2, S0356: 2, S0132: 2, S0222: 2, H0333: 2, H0009: 2, L0157: 2,	14q21-q24	107970, 115650, 182600, 232700, 602086, 602091, 602616
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HPDRG92	1011209	432	1 - 291	2607	Pro-51 to Phe-57, Ser-87 to Thr-94.	L0751: 1, L0779: 1, L0777: 1, L0780: 1, L0753: 1, L0731: 1, H0445: 1, H0595: 1, S0434: 1, S0436: 1, L0591: 1, S0011: 1, H0668: 1, S0196: 1, L0469: 1, S0424: 1 and S0458: 1.		
HOFMQ81	1011303	433	2 - 544	2608	His-1 to Gly-12, Ser-27 to Ser-37, Pro-59 to Ser-68, Glu-94 to Ala-102, Ile-129 to Ser-143, Pro-145 to Pro-150.	H0658: 3, L0748: 3, H0052: 1 and L0741: 1, AR033: 2, AR089: 2, AR039: 2, AR061: 2, AR055: 1, AR096: 1, AR060: 1, AR104: 1, AR053: 0 H0415: 2		
HOFNF27	1011315	434	3 - 680	2609	Pro-10 to Lys-26, Asn-44 to Tyr-53, Arg-104 to Lys-114, Arg-121 to Ala-134, Gly-155 to Thr-177, Gln-201 to Ser-206.	AR053: 3, AR089: 2, AR096: 1, AR060: 1, AR055: 1, AR104: 1, AR033: 1, AR039: 1, AR061: 0 H0415: 3, H0539: 2, H0355: 1 and H0375: 1.		
HOFND52	1011316	435	126 - 542	2610	Pro-9 to Arg-15, Ala-17 to Thr-26, Pro-39 to Lys-45, Asp-54 to Ala-61, Leu-86 to Gly-91, Phe-99 to Thr-106.	AR096: 1, AR060: 1, AR061: 1, AR033: 1, AR089: 1, AR039: 1, AR053: 0, AR055: 0, AR104: 0 H0415: 2		

HOFNI96	1011321	436	3 - 575	2611	Pro-3 to Ala-17, Asn-56 to Asp-62.	H0415: 1		
HOFNF53	1011332	437	2 - 1183	2612	Pro-26 to Arg-32, Gly-68 to Glu-75, Cys-111 to Asp-116.	AR052: 2, AR053: 1, AR089: 1, AR096: 1, AR055: 1, AR039: 1, AR060: 1, AR033: 1, AR061: 1, AR104: 0 H0415: 2		
HOFMU61	1011360	438	62 - 1249	2613	Ala-39 to Thr-44, Thr-171 to Lys-180.	AR052: 1, AR096: 1, AR089: 1, AR060: 1, AR033: 1, AR053: 0, AR061: 0, AR104: 0, AR039: 0, AR055: 0 H0415: 4		
HOFOF35	1011499	439	1 - 639	2614	Ser-13 to Glu-26, Ser-48 to Val-55, Lys-85 to Thr-91, Asp-115 to Asn-126, Asp-169 to Lys-175.	H0415: 2		
HULFI37	1011537	440	915 - 364	2615		H0620: 11, H0683: 10, H0483: 7, H0046: 7, H0687: 6, S0360: 4, H0012: 4, H0428: 4, L0471: 3, L0665: 3, H0520: 3, H0670: 3, H0672: 3, L0750: 3, H0624: 2, H0662: 2, H0333: 2, H0013: 2, H0530: 2, H0024: 2,	11p11.2	133701, 168500, 171650, 176930, 176930, 600623, 600811, 600958

H0594: 2, L0381: 2, H0144: 2, H0547: 2, H0435: 2, L0593: 2, L0601: 2, H0352: 2, H0294: 1, H0341: 1, H0661: 1, H0664: 1, H0240: 1, S0354: 1, S0358: 1, S0376: 1, H0675: 1, S0007: 1, S0046: 1, H0369: 1, H0370: 1, H0587: 1, H0497: 1, H0642: 1, H0575: 1, S0049: 1, H0204: 1, H0596: 1, H0178: 1, H0011: 1, H0266: 1, H0290: 1, T0006: 1, H0424: 1, S0364: 1, H0616: 1, H0087: 1, H0412: 1, H0413: 1, H0100: 1, H0647: 1, H0652: 1, S0210: 1, L0369: 1, L0769: 1, L0373: 1, L0771: 1, L0364: 1, L0649: 1, L0775: 1, L0375: 1, L0651: 1, L0776: 1, L0659: 1, L0517: 1, L0783: 1, L0382: 1, L0809: 1, L0519: 1, L0663: 1,
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HOFME75	1011607	441	2 - 1024	2616	Arg-1 to Gly-7.	S0053: 1, H0519: 1, H0658: 1, H0660: 1, H0666: 1, S0027: 1, L0743: 1, L0740: 1, L0747: 1, L0749: 1, L0779: 1, L0777: 1, L0752: 1, L0753: 1, L0757: 1, L0759: 1, H0445: 1, H0595: 1 and L0595: 1.	H0415: 5	11q13.5	133780, 266150, 276903, 276903, 276903
HOPKO74	1011608	442	136 - 1482	2617	Arg-6 to Gly-13, Glu-132 to Glu-137, Arg-179 to Ala-200, Ala-209 to Lys-215, Glu-218 to Asp-227, Pro-239 to Lys-244, Tyr-276 to Lys-283, Ile-361 to Asp-367, Met-371 to Asp- 376, Asp-391 to Lys-411, Pro-440 to Leu-449.	L0747: 55, H0551: 25, H0135: 24, S0126: 20, H0619: 14, L0750: 14, S0418: 12, S0360: 12, H0547: 12, S0028: 12, L0754: 12, L0659: 11, H0123: 10, L0665: 9, H0693: 9, S3014: 9, S0027: 9, S0040: 8, L0654: 8, L0595: 8, H0050: 7, L0363: 7, L0666: 7, L0601: 7, S0212: 6, L0717: 6, H0599: 6, H0081: 6, H0012: 6, H0024: 6,	11q13.5	133780, 266150, 276903, 276903, 276903	

S0250: 6, H0623: 6, H0520: 6, S0390: 6, S0436: 6, L0593: 6, H0645: 5, H0545: 5, L0483: 5, H0553: 5, H0040: 5, L0770: 5, L0565: 5, H0519: 5, H0684: 5, S0037: 5, L0743: 5, L0605: 5, S0342: 4, S0420: 4, S0376: 4, S0045: 4, S0046: 4, H0486: 4, H0266: 4, H0286: 4, H0100: 4, L0769: 4, L5565: 4, L0662: 4, L0649: 4, L0776: 4, L0663: 4, H0658: 4, L0749: 4, L0731: 4, L0757: 4, L0597: 4, L0591: 4, H0352: 4, H0624: 3, H0265: 3, H0556: 3, S0476: 3, H0013: 3, H0253: 3, H0544: 3, H0428: 3, H0031: 3, H0644: 3, L0762: 3, L0637: 3, L5566: 3, L0768: 3, L0775: 3, L0375: 3, L0657: 3, L0664: 3, S0152: 3, L0744: 3,							
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L0748: 3, L0740: 3, L0751: 3, H0295: 2, S0298: 2, H0661: 2, S0356: 2, H0676: 2, H0592: 2, H0333: 2, T0039: 2, T0060: 2, H0635: 2, H0251: 2, H0046: 2, L0471: 2, H0594: 2, H0292: 2, H0615: 2, H0634: 2, H0413: 2, H0059: 2, L0564: 2, S0440: 2, S0210: 2, S0422: 2, L0598: 2, H0529: 2, L0806: 2, L0653: 2, L0438: 2, H0689: 2, H0672: 2, H0521: 2, S0406: 2, H0555: 2, S3012: 2, S0032: 2, L0755: 2, H0445: 2, L0596: 2, L0588: 2, L0589: 2, L0590: 2, S0192: 2, H0739: 1, H0171: 1, H0713: 1, H0717: 1, H0716: 1, T0049: 1, H0669: 1, H0663: 1, H0664: 1, H0662: 1, H0638: 1, S0354: 1, S0358: 1, S0410: 1, H0729: 1,
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HCBA51	1011755	443	57 - 266	2618	Pro-11 to Phe-16, Thr-48 to Ser-60.	L0651: 1, L0508: 1, L0656: 1, L0782: 1, L0783: 1, L0383: 1, L0519: 1, L0545: 1, L0543: 1, L5623: 1, L0793: 1, S0006: 1, H0144: 1, H0682: 1, H0435: 1, H0660: 1, H0539: 1, H0522: 1, H0694: 1, L0439: 1, L0758: 1, L0362: 1, S0011: 1, H0668: 1, H0665: 1, H0667: 1, S0194: 1, S0196: 1, H0542: 1, S0042: 1 and H0008: 1.		
						H0659: 16, L0747: 15, S0358: 14, L0005: 13, L0758: 9, S0360: 8, L0775: 8, H0648: 8, H0657: 6, L0731: 6, L0757: 6, H0341: 5, H0412: 5, S0440: 5, H0658: 5, H0710: 5, L0750: 5, L0588: 5, S0007: 4, S0046: 4, H0599: 4, L0520: 4, L0764: 4, L0768: 4, H0170: 3, H0306: 3, H0125: 3, S0408: 3,		

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S0376: 1, S0444: 1, S0410: 1, S0045: 1, S0132: 1, H0411: 1, S0278: 1, S6022: 1, H0441: 1, H0609: 1, T0039: 1, H0013: 1, H0635: 1, H0042: 1, T0048: 1, H0421: 1, H0173: 1, H0052: 1, H0204: 1, H0597: 1, H0044: 1, H0546: 1, H0046: 1, H0150: 1, H0009: 1, H0023: 1, H0373: 1, L0163: 1, H0201: 1, S0048: 1, S0388: 1, S0051: 1, H0408: 1, H0238: 1, H0622: 1, T0023: 1, H0031: 1, H0606: 1, H0673: 1, H0163: 1, H0040: 1, H0634: 1, H0616: 1, T0069: 1, T0041: 1, H0494: 1, H0646: 1, S0144: 1, S0142: 1, S0344: 1, L0598: 1, L0762: 1, L0763: 1, L0769: 1, L0637: 1, L0761: 1, L0373: 1, L0773: 1, L0522: 1, L0803: 1,
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HDHBB13	1011773	444	31 - 972	2619		Gly-1 to Glu-11, Arg-54 to Ser-60, Pro-68 to Gly-78, Pro-92 to Gly-126, Ala-134 to Asn-143, Thr-145 to Gly-162, Gly-173 to Ser-179, Lys-187 to Leu-194, Glu-205 to Ser-213, Ser-283 to Phe-289, Ala-306 to Glu-313.	L0777: 4, L0747: 3, S0007: 1, H0351: 1, H0550: 1, H0013: 1, H0570: 1, H0123: 1, H0019: 1, H0012: 1, H0553: 1, L0794: 1, L0759: 1 and H0352: 1.		
HDTMG36	1011821	445	3 - 248	2620		Pro-28 to Glu-35, Leu-71 to Pro-77.			
HVVCJ38	1011830	446	2 - 817	2621		Thr-121 to Asn-126, Ala-134 to Ala-140, Arg-174 to Arg-184.	L0771: 5, L0439: 5, L0761: 4, L0794: 4, L0809: 4, L0666: 4.		

Ser-194 to Gln-199, Met-208 to Gln-217, Arg-258 to Gly-263.	L0743: 4, L0758: 4, H0661: 3, H0638: 3, H0618: 3, L0770: 3, L0803: 3, L0659: 3, L0790: 3, H0662: 2, H0181: 2, S0144: 2, S0142: 2, L0800: 2, L0663: 2, H0539: 2, L0740: 2, L0750: 2, H0713: 1, H0583: 1, S0212: 1, H0483: 1, H0402: 1, S0418: 1, S0356: 1, S0360: 1, S0222: 1, H0486: 1, T0109: 1, H0250: 1, H0575: 1, H0253: 1, H0052: 1, H0194: 1, H0544: 1, H0546: 1, H0545: 1, H0024: 1, H0335: 1, H0688: 1, H0617: 1, H0124: 1, H0135: 1, H0163: 1, H0413: 1, S0038: 1, T0041: 1, H0509: 1, H0529: 1, L0371: 1, L0769: 1, L0638: 1, L0764: 1, L0648: 1, L0662: 1, L0804: 1, L0775: 1, L0629: 1, L0657: 1, L0656: 1.
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HPAMY22	1011840	447	1 - 180	2622	Pro-18 to Gln-36, Ser-43 to Ala-57.	L0647: 1, L0791: 1, L0438: 1, H0519: 1, H0435: 1, H0658: 1, H0670: 1, H0672: 1, S0328: 1, H0521: 1, H0436: 1, L0741: 1, L0749: 1, L0779: 1, L0759: 1, H0445: 1, S0398: 1 and H0352: 1, H0682: 1		
HE9CP86	1011847	448	107 - 727	2623	Arg-13 to Arg-19, Asp-37 to Asp-43, Glu-127 to Asp-132, Asn-152 to Glu-171, Ala-179 to Ala-193.	L0748: 18, L0749: 8, L0755: 7, H0686: 4, S0360: 3, H0519: 3, H0659: 3, L0747: 3, L0758: 3, H0341: 2, H0622: 2, H0040: 2, H0616: 2, L0772: 2, L0375: 2, L0754: 2, L0779: 2, H0542: 2, H0294: 1, H0657: 1, H0656: 1, S0116: 1, H0663: 1, H0638: 1, S0376: 1, H0393: 1, H0083: 1, H0030: 1, L0055: 1, H0068: 1, H0591: 1, H0038: 1, H0412: 1, H0100: 1, L0475: 1, S0422: 1, L0763: 1, L0771: 1,		

						L0767: 1, L0768: 1, L0784: 1, L0776: 1, L0633: 1, L0783: 1, L0665: 1, H0144: 1, H0682: 1, S0378: 1, H0627: 1, L0752: 1, L0731: 1, S0026: 1, H0665: 1, S0242: 1 and H0543: 1.			
HPDU46	1011883	449	24 - 692	2624		H0658: 2, L0750: 2, L0806: 1, L0790: 1 and L0779: 1.			
HFCDW73	1011901	450	3 - 425	2625		H0575: 1 and H0009: 1.			
HOVEB13	1011919	451	21 - 905	2626	Val-7 to Ser-12, Leu-79 to Asn-87, Lys-120 to Ala-125, Ala-166 to Arg-171, Lys-208 to Phe-217, Gln-234 to Pro-241, Asp-285 to Gln-290.	AR033: 6, AR089: 5, AR096: 4, AR055: 3, AR052: 3, AR060: 3, AR053: 2, AR061: 2, AR039: 1, AR104: 0 L0779: 4, H0428: 3, L0773: 2, L0662: 2, L0659: 2, L0602: 2, L0777: 2, L0596: 2, L0608: 2, H0170: 1, H0580: 1, S0045: 1, T0048: 1, H0052: 1, L0471: 1, H0628: 1, L0770: 1, L0761: 1, L0805: 1, L0653: 1, L0657: 1, L0512: 1,			

HPAMS93	1011948	452	74 - 1114	2627	<p>H0682: 1, H0672: 1, L0748: 1, L0740: 1, L0749: 1, L0757: 1, S0031: 1, H0543: 1 and H0677: 1.</p> <p>L0754: 8, L0766: 6, L0439: 6, S0414: 4, L0758: 4, S0360: 3, L0803: 3, L0666: 3, L0756: 3, L0731: 3, S0218: 2, H0676: 2, H0251: 2, H0457: 2, H0083: 2, H0038: 2, H0616: 2, L0770: 2, L0775: 2, H0144: 2, H0682: 2, H0436: 2, L0752: 2, L0485: 2, L0594: 2, H0624: 1, S0430: 1, H0657: 1, H0341: 1, S0358: 1, H0411: 1, H0431: 1, T0039: 1, H0013: 1, L0021: 1, H0194: 1, H0050: 1, H0020: 1, H0051: 1, H0375: 1, H0594: 1, S0003: 1, H0272: 1, S0386: 1, H0494: 1, S0438: 1, H0652: 1, S0422: 1, H0529: 1, L0765: 1.</p>
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HCRBN71	1011966	453	1 - 420	2628		L0771: 1, L0521: 1, L0804: 1, L0774: 1, L0651: 1, L0776: 1, L0655: 1, L0659: 1, L0809: 1, L0647: 1, L0789: 1, L0790: 1, L0663: 1, L0664: 1, L0665: 1, S0374: 1, L0438: 1, H0519: 1, S0188: 1, H0478: 1, H0626: 1, S0028: 1, L0779: 1, L0777: 1, L0780: 1, L0759: 1, S0031: 1, H0445: 1 and S0026: 1.		
HCRNC60	1012005	454	637 - 1302	2629	Pro-16 to Asp-25, Arg-44 to Gln-50, Ser-63 to Arg-69, Gln-108 to Arg-115, Lys-122 to Gly-136, Arg-143 to Met-151,	L0776: 6, L0766: 5, L0777: 3, L0758: 3, L0755: 2, H0327: 1, L0768: 1, L0805: 1, L0655: 1, L0788: 1, H0648: 1, H0672: 1, S0406: 1, L0747: 1, L0752: 1, L0757: 1 and S0196: 1. L0471: 11, H0251: 9, L0163: 7, H0599: 5, H0295: 4, H0373: 4, S0210: 4, S0126: 3, S0356: 2, S0358: 2, H0619: 2, H0012: 2,	15q22.1	151670, 191010, 601780

Asp-167 to Glu-173, Asp-185 to Glu-194, Thr-206 to Asp-213.	H0628: 2, S0364: 2, H0551: 2, H0519: 2, S0026: 2, H0170: 1, T0049: 1, S0134: 1, H0656: 1, H0662: 1, S0418: 1, S0420: 1, S0354: 1, S0360: 1, T0008: 1, H0411: 1, H0431: 1, H0432: 1, H0592: 1, S0005: 1, H0574: 1, H0270: 1, T0039: 1, H0013: 1, H0002: 1, H0036: 1, S0010: 1, S0474: 1, H0196: 1, T0115: 1, H0597: 1, H0545: 1, H0050: 1, H0024: 1, S0362: 1, H0200: 1, H0266: 1, S0022: 1, H0252: 1, H0039: 1, H0644: 1, H0032: 1, S0366: 1, H0090: 1, H0591: 1, T0041: 1, T0042: 1, H0509: 1, S0374: 1, H0520: 1, H0670: 1, H0651: 1, H0539: 1, S0380: 1, S0044: 1, S0118: 1, S0028: 1, L0748: 1, L0757: 1, L0588: 1,
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HSPS/24	1012064	455	284 - 925	2630	Pro-83 to Gln-90, Ala-123 to Gly-131, Glu-174 to Pro-183.	S0011: 1, H0653: 1, H0665: 1, S0242: 1 and H0506: 1.  S0358: 2, S0360: 2, H0251: 2, H0622: 2, S0144: 2, L0659: 2, L0751: 2, L0777: 2, H0265: 1, S0134: 1, H0657: 1, H0486: 1, H0575: 1, S0010: 1, H0581: 1, H0052: 1, H0085: 1, H0266: 1, H0687: 1, H0644: 1, H0617: 1, L0662: 1, L0766: 1, L0549: 1, L0774: 1, L0775: 1, L0806: 1, L0657: 1, L0382: 1, H0683: 1, H0522: 1, H0555: 1, H0576: 1, L0754: 1, L0749: 1, L0758: 1, L0599: 1 and S0446: 1.	14q11.2	182600, 186880, 190195, 190195, 222700, 600243, 602279, 602279
HPCPB22	1012076	456	3 - 554	2631	Arg-88 to Lys-93, Tyr-101 to Gly-107, Arg-169 to Pro-184.	H0659: 2 and L0378: 1.		
HOVD/222	1012136	457	2 - 169	2632	Tyr-1 to Gly-13.	H0529: 7, L0766: 6, L0809: 6, L0777: 5, H0428: 3, H0656: 2, H0013: 2, H0620: 2, L0806: 2, L0665: 2,		

HBZSK53	1012240	458	2 - 721	2633	Pro-6 to Gln-11.	H0547: 2, L0748: 2, L0747: 2, L0756: 2, L0601: 2, H0484: 1, H0192: 1, S0420: 1, S0358: 1, H0575: 1, H0581: 1, H0046: 1, H0012: 1, T0010: 1, H0266: 1, H0622: 1, H0165: 1, H0673: 1, L0456: 1, H0068: 1, H0135: 1, H0087: 1, H0264: 1, H0412: 1, H0560: 1, L0763: 1, L0770: 1, L0771: 1, L0649: 1, L0561: 1, L0375: 1, L0805: 1, L0776: 1, L0518: 1, L0783: 1, L0666: 1, L0663: 1, H0520: 1, H0519: 1, S0126: 1, H0659: 1, H0672: 1, H0539: 1, H0436: 1, S3014: 1, L0741: 1, L0749: 1, L0750: 1, L0779: 1, L0731: 1, L0589: 1, L0581: 1, L0608: 1 and S0011: 1. H0584: 59, S0278: 16, S0444: 10, L0775: 10, L0809: 10, H0545: 9.
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	S0144: 9, H0670: 9, S0408: 8, S0410: 7, L0761: 7, L0766: 7, L0731: 7, L0757: 7, H0617: 6, L0774: 6, H0656: 5, H0255: 5, S0358: 5, H0539: 5, H0620: 5, L0772: 5, S0328: 5, L0747: 5, H0341: 4, H0546: 4, H0059: 4, L0800: 4, L0754: 4, L0758: 4, H0638: 3, H0580: 3, H0250: 3, S0440: 3, H0652: 3, S0142: 3, L0764: 3, L0653: 3, L0783: 3, S0374: 3, H0522: 3, H0624: 2, H0657: 2, H0402: 2, H0637: 2, H0586: 2, H0486: 2, H0581: 2, L0763: 2, L0770: 2, L0374: 2, L0771: 2, L0773: 2, L0776: 2, L0790: 2, S0052: 2, H0684: 2, S0406: 2, S3014: 2, S0027: 2, L0779: 2, L0777: 2, H0445: 2, L0601: 2, H0167: 1, H0716: 1,
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HBCPH02	1012453	459	3 - 773	2634	Arg-9 to Asp-14,	S0218: 1, L0785: 1, S0116: 1, H0254: 1, H0306: 1, S0442: 1, S0354: 1, S0045: 1, H0549: 1, H0587: 1, H0635: 1, H0575: 1, H0590: 1, S0182: 1, H0318: 1, H0421: 1, H0150: 1, H0123: 1, H0083: 1, H0179: 1, H0628: 1, H0063: 1, H0100: 1, T0042: 1, H0560: 1, H0641: 1, S0344: 1, L0769: 1, L0646: 1, L0644: 1, L0768: 1, L0794: 1, L0806: 1, L0655: 1, L0383: 1, L0791: 1, L0663: 1, S0216: 1, H0699: 1, H0703: 1, H0593: 1, S0126: 1, H0690: 1, H0672: 1, S0190: 1, H0187: 1, H0576: 1, L0611: 1, S0028: 1, L0749: 1, L0750: 1, L0755: 1, H0343: 1, H0668: 1, H0653: 1, H0543: 1 and H0422: 1.
						H0032: 3, H0090: 3,

HCONM62	1012454	460	20 - 1306	2635	Leu-38 to Gly-59, Pro-62 to Thr-75, Met-83 to Val-90, Thr-94 to Ser-105, Pro-109 to Glu-125, Phe-134 to Ser-139, Ile-141 to Lys-162, Cys-166 to Pro-180, Leu-202 to Pro-207, Ile-248 to Asn-253.	S0114: 2, H0123: 2, H0494: 2, H0445: 2, H0663: 1, H0455: 1, H0036: 1, H0457: 1, H0050: 1, H0039: 1, H0212: 1, H0433: 1, L0766: 1, S0206: 1 and L0749: 1.	7q31	126650, 126650, 164860, 180105, 222800, 246900, 274600, 274600, 602081
						H0521: 181, L0748: 11, H0551: 10, H0617: 8, H0046: 7, L0731: 7, H0623: 6, L0663: 6, H0547: 6, H0265: 5, S0418: 5, H0009: 5, H0553: 5, H0670: 5, L0740: 5, L0759: 5, H0556: 4, S0376: 4, S0046: 4, H0266: 4, H0135: 4, S0344: 4, L0665: 4, S0374: 4, H0689: 4, H0435: 4, H0658: 4, S3014: 4, S0206: 4, L0596: 4, H0543: 4, S0212: 3, H0483: 3, S0410: 3, S0132: 3, H0592: 3, H0012: 3, H0620: 3, H0039: 3, H0488: 3,		

L0372: 3, L0764: 3, L0666: 3, H0519: 3, S0027: 3, S0028: 3, L0439: 3, L0750: 3, L0777: 3, H0665: 3, H0656: 2, H0638: 2, L0562: 2, L0539: 2, S0360: 2, H0208: 2, S0045: 2, L0717: 2, H0549: 2, H0586: 2, H0156: 2, H0052: 2, H0545: 2, H0024: 2, H0424: 2, H0213: 2, H0030: 2, H0087: 2, H0100: 2, T0042: 2, H0494: 2, H0560: 2, H0561: 2, S0440: 2, L0369: 2, L0640: 2, L0761: 2, L0646: 2, L0659: 2, L0540: 2, L0382: 2, L0809: 2, L0664: 2, L0438: 2, H0593: 2, H0648: 2, H0555: 2, L0757: 2, L0758: 2, S0434: 2, L0595: 2, S0192: 2, H0423: 2, H0422: 2, H0677: 2, H0624: 1, S0342: 1, S0218: 1, H0650: 1, H0657: 1,
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H0341: 1, S0282: 1, H0255: 1, H0661: 1, H0662: 1, S0420: 1, S0356: 1, S0358: 1, S0444: 1, S0408: 1, H0645: 1, H0261: 1, H0550: 1, S0222: 1, H0441: 1, H0370: 1, H0587: 1, S0005: 1, H0333: 1, H0331: 1, T0040: 1, T0082: 1, T0048: 1, S0182: 1, H0318: 1, H0581: 1, S0049: 1, H0196: 1, H0251: 1, H0596: 1, H0327: 1, H0544: 1, H0572: 1, H0050: 1, L0471: 1, H0687: 1, H0286: 1, S0340: 1, S0003: 1, H0428: 1, H0033: 1, H0604: 1, H0644: 1, H0628: 1, H0181: 1, H0606: 1, L0055: 1, H0169: 1, L0455: 1, H0124: 1, S0366: 1, S0036: 1, H0040: 1, H0063: 1, H0433: 1, S0038: 1, L0475: 1, H0132: 1, H0641: 1, S0144: 1,						
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H0GEU69	1012459	461	2 - 691	2636	Arg-1 to Ala-11, Ser-118 to Gln-126, Leu-200 to Thr-207, Lys-213 to Ala-218, Glu-225 to Thr-230.	S0422: 1, S0002: 1, L0598: 1, H0529: 1, L0641: 1, L0374: 1, L0645: 1, L0648: 1, L0650: 1, L0375: 1, L0378: 1, L0806: 1, L0653: 1, L0776: 1, L0655: 1, L0661: 1, L0634: 1, L0636: 1, L0517: 1, L0518: 1, L0384: 1, L0647: 1, L0789: 1, L0791: 1, L0792: 1, H0144: 1, H0701: 1, S0126: 1, H0690: 1, H0659: 1, H0672: 1, H0539: 1, S0378: 1, H0518: 1, S0152: 1, S0044: 1, H0576: 1, H0631: 1, S0032: 1, L0741: 1, L0743: 1, L0745: 1, L0779: 1, L0752: 1, L0592: 1, H0668: 1 and H0542: 1.	5q22-q23	121050, 126150, 159000, 175100, 175100, 175100,
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L0529: 3, H0521: 3, H0318: 2, H0178: 2, H0553: 2, H0641: 2, L0763: 2, L0770: 2, L0769: 2, L0662: 2, L0651: 2, L0659: 2, L0519: 2, L0750: 2, S0434: 2, H0624: 1, T0002: 1, H0650: 1, S0212: 1, H0638: 1, S0358: 1, S0444: 1, H0637: 1, S0132: 1, H0431: 1, H0586: 1, H0497: 1, H0530: 1, H0546: 1, H0545: 1, H0355: 1, H0510: 1, S0314: 1, H0598: 1, H0413: 1, H0560: 1, S0438: 1, H0509: 1, H0633: 1, S0422: 1, L0371: 1, L0764: 1, L0765: 1, L0768: 1, L0650: 1, L0774: 1, L0806: 1, L0657: 1, L0809: 1, L0664: 1, L0665: 1, H0144: 1, H0547: 1, H0682: 1, H0435: 1, H0648: 1, H0539: 1, S0380: 1, S0152: 1, H0555: 1,	175100, 175100, 175100, 179095, 192974, 192974, 601596
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HVVBD93	1012469	462	2 - 829	2637	Gln-3 to Cys-12, Thr-19 to Thr-25.	L0749: 1, L0758: 1, H0445: 1, L0595: 1 and S0192: 1. L0758: 5, L0769: 4, L0766: 3, L0809: 3, L0774: 2, L0790: 2, L0663: 2, L0439: 2, L0752: 2, S0218: 1, H0583: 1, S0442: 1, S0602: 1, H0441: 1, H0574: 1, H0150: 1, S0388: 1, S0364: 1, H0743: 1, L0369: 1, L0770: 1, L0638: 1, L0644: 1, L0764: 1, L0648: 1, L0662: 1, L0794: 1, L0803: 1, L0636: 1, L0368: 1, L0666: 1, L0664: 1, L0565: 1, L0438: 1, H0682: 1, H0672: 1, L0741: 1, L0743: 1, L0748: 1, L0751: 1, L0754: 1, L0747: 1, L0749: 1, L0777: 1, L0759: 1, S0434: 1 and L0592: 1.				
HCOMV86	1012482	463	313 - 834	2638		H0521: 91, H0580: 23, H0522: 22, H0445: 14, H0638: 12, H0656: 11, L06300, L08800, L20290,				

H0486: 8, H0090: 7, H0583: 5, H0125: 5, S0358: 5, H0581: 5, H0591: 5, H0561: 5, H0657: 4, S0442: 4, H0575: 4, H0634: 4, H0134: 4, H0427: 3, H0318: 3, H0050: 3, H0264: 3, H0648: 3, H0518: 3, L0599: 3, H0650: 2, S0376: 2, S0408: 2, H0586: 2, H0069: 2, H0635: 2, H0086: 2, H0252: 2, H0488: 2, H0560: 2, H0641: 2, L0776: 2, H0660: 2, L0748: 2, L0745: 2, S0434: 2, H0265: 1, H0556: 1, S0360: 1, H0676: 1, H0637: 1, H0619: 1, H0393: 1, H0440: 1, H0549: 1, H0431: 1, H0592: 1, H0574: 1, H0250: 1, H0004: 1, H0421: 1, H0242: 1, H0375: 1, H0109: 1, T0023: 1, H0031: 1, H0673: 1, H0376: 1, H0063: 1, S0440: 1,	120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261, 177900, 179430, 201910, 217000, 222100, 233100, 235200, 248611, 256550, 256550, 600202, 600261, 601868, 602280, 602475
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HCONJ23	1012519	464	43 - 990	2639	Met-8 to Lys-13, Pro-23 to Trp-30.	H0647: 1, H0646: 1, S0002: 1, S0426: 1, L0768: 1, L0649: 1, L0805: 1, L0659: 1, H0702: 1, H0689: 1, H0684: 1, H0670: 1, H0539: 1, H0709: 1, S0146: 1, H0576: 1, L0744: 1, L0754: 1, L0749: 1, L0750: 1, L0777: 1, L0752: 1, L0755: 1, S0260: 1, S0308: 1, H0707: 1, L0581: 1, H0677: 1 and H0506: 1.	H0647: 1, H0646: 1, S0002: 1, S0426: 1, L0768: 1, L0649: 1, L0805: 1, L0659: 1, H0702: 1, H0689: 1, H0684: 1, H0670: 1, H0539: 1, H0709: 1, S0146: 1, H0576: 1, L0744: 1, L0754: 1, L0749: 1, L0750: 1, L0777: 1, L0752: 1, L0755: 1, S0260: 1, S0308: 1, H0707: 1, L0581: 1, H0677: 1 and H0506: 1.	8q11	600899
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	S0222: 2, H0392: 2, H0486: 2, H0266: 2, H0032: 2, L0767: 2, L0803: 2, L0805: 2, L0655: 2, L0657: 2, L0659: 2, L0809: 2, H0144: 2, S0374: 2, L0756: 2, L0758: 2, S0436: 2, L0591: 2, L0485: 2, H0556: 1, H0220: 1, H0656: 1, S0001: 1, H0661: 1, H0662: 1, S0358: 1, S0376: 1, S0408: 1, S0410: 1, H0619: 1, H0600: 1, H0643: 1, H0013: 1, H0427: 1, H0156: 1, H0599: 1, H0575: 1, S0010: 1, S0346: 1, H0318: 1, H0251: 1, L0163: 1, S0388: 1, S0051: 1, H0271: 1, H0644: 1, H0111: 1, H0617: 1, H0673: 1, H0169: 1, L0456: 1, H0376: 1, H0598: 1, H0591: 1, H0040: 1, H0063: 1, H0413: 1, T0042: 1, H0560: 1, S0294: 1,
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HVV/BL04	1012536	465	2 - 310	2640	Lys-2 to Glu-13, Asn-39 to Glu-47, Arg-49 to Glu-56, Lys-73 to Arg-85.	S0450: 1, L0065: 1, S0422: 1, S0002: 1, L0598: 1, H0529: 1, L0770: 1, L0769: 1, L0761: 1, L0646: 1, L0649: 1, L0388: 1, L0775: 1, L0652: 1, L0629: 1, L0527: 1, L0790: 1, L0666: 1, L0663: 1, L0664: 1, S0052: 1, H0691: 1, H0520: 1, H0547: 1, H0682: 1, H0658: 1, H0670: 1, H0666: 1, H0648: 1, S0146: 1, L0743: 1, L0751: 1, L0752: 1, H0445: 1, S0434: 1, L0608: 1, H0665: 1, S0192: 1, S0194: 1, H0543: 1 and H0423: 1. H0672: 2		
HVV/AF65	1012542	466	3 - 731	2641		L0748: 19, L0439: 7, L0731: 6, L0775: 4, S0356: 2, H0421: 2, H0509: 2, L0805: 2, L0783: 2, L0809: 2, 114290, 115660, 138033, 139250, 148500,		



HCONN76	1012545	467	1 - 1716	2642	Tyr-1 to Ser-12.	<p>S0136: 2, L0740: 2, L0747: 2, L0749: 2, L0599: 2, L0362: 2, H0170: 1, S0470: 1, L0005: 1, S0354: 1, S0376: 1, S0045: 1, S0278: 1, H0642: 1, H0331: 1, H0574: 1, H0036: 1, S0346: 1, H0318: 1, L0157: 1, H0050: 1, L0471: 1, H0024: 1, H0275: 1, H0594: 1, H0267: 1, S0003: 1, H0031: 1, H0412: 1, T0069: 1, H0100: 1, T0041: 1, L0475: 1, S0142: 1, S0002: 1, L0769: 1, L0776: 1, L0655: 1, L0527: 1, L0664: 1, S0374: 1, L0438: 1, H0658: 1, H0672: 1, S0380: 1, S0350: 1, H0521: 1, S0146: 1, L0777: 1, L0752: 1, L0753: 1, L0757: 1 and L0581: 1.</p>	<p>150200, 154275, 162100, 170500, 170500, 170500, 180860, 182452, 230200, 249000, 253250, 264470</p>
						<p>H0423: 16, H0521: 11, 21q22.3 L0777: 10, H0622: 9, L0751: 9, H0641: 8,</p>	<p>120220, 120240, 123580,</p>

	H0518: 8, L0596: 8, H0265: 7, H0039: 6, L0740: 6, H0543: 6, T0049: 5, L0770: 5, L0665: 5, L0757: 5, H0422: 5, H0556: 4, H0255: 4, H0046: 4, H0435: 4, L0731: 4, L0599: 4, H0254: 3, H0271: 3, H0090: 3, L0794: 3, L0766: 3, S0328: 3, H0522: 3, S0260: 3, H0224: 2, H0225: 2, H0713: 2, S0029: 2, S0376: 2, S0360: 2, S0132: 2, H0087: 2, H0494: 2, L0662: 2, L0806: 2, L0382: 2, L0438: 2, H0689: 2, H0670: 2, H0660: 2, L0748: 2, L0779: 2, S0436: 2, H0506: 2, T0002: 1, H0220: 1, H0159: 1, H0717: 1, S0114: 1, L0785: 1, H0341: 1, S0110: 1, H0671: 1, H0663: 1, H0402: 1, S0356: 1, S0358: 1, H0675: 1, H0676: 1,	151385, 171860, 190685, 236100, 236200, 240300, 267750, 600065, 601072, 601145
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S0408: 1, H0722: 1, H0282: 1, H0632: 1, H0635: 1, H0427: 1, H0575: 1, S0010: 1, S0346: 1, S0474: 1, H0581: 1, H0251: 1, H0544: 1, L0163: 1, H0051: 1, S0388: 1, H0188: 1, H0687: 1, H0286: 1, T0023: 1, H0604: 1, H0644: 1, H0181: 1, H0617: 1, H0032: 1, H0040: 1, H0634: 1, H0272: 1, H0509: 1, S0142: 1, L0763: 1, L0638: 1, L0372: 1, L0646: 1, L0771: 1, L0774: 1, L0805: 1, L0653: 1, L0776: 1, L0655: 1, L0636: 1, L0782: 1, L0663: 1, H0701: 1, H0690: 1, H0684: 1, H0658: 1, H0666: 1, S0152: 1, S0406: 1, H0555: 1, L0439: 1, L0747: 1, L0749: 1, L0750: 1, L0780: 1, L0755: 1, L0758: 1, S0031: 1, H0445: 1,				
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HVVA56	1012568	468	3 - 1382	2643	<p>Cys-2 to Ser-16, Glu-55 to Lys-61, Pro-83 to Leu-88, Ser-135 to Pro-148, Val-152 to Arg-163, Pro-223 to Thr-230, Ala-242 to Val-253, Arg-258 to Glu-274, Gly-290 to Asp-300, Lys-337 to Asn-345, Asp-373 to Ala-398, Gly-401 to Lys-406, Gln-410 to Ala-430, Pro-433 to Gln-460.</p>	<p>S0434: 1, L0604: 1 and H0542: 1, L0766: 9, L0777: 9, H0529: 8, H0521: 7, L0731: 7, S0360: 6, L0758: 6, H0494: 5, L0749: 5, L0759: 5, S0376: 4, H0639: 4, S0422: 4, L0665: 4, H0144: 4, H0520: 4, H0547: 4, L0439: 4, H0423: 4, S0424: 4, H0581: 3, L0471: 3, H0266: 3, S0150: 3, L0764: 3, L0803: 3, L0659: 3, L0666: 3, H0519: 3, H0659: 3, H0696: 3, L0755: 3, H0716: 2, H0662: 2, S0356: 2, S0046: 2, H0013: 2, H0545: 2, H0457: 2, H0551: 2, H0100: 2, L0475: 2, L0598: 2, L0763: 2, L0770: 2, L0637: 2, L0772: 2, L0765: 2, L0662: 2, L0649: 2, L0774: 2, L0775: 2, L0776: 2, L0809: 2, H0689: 2, S0406: 2,</p>		
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	H0478: 2, S0028: 2, L0744: 2, L0747: 2, L0750: 2, L0752: 2, L0757: 2, L0608: 2, L0362: 2, H0668: 2, L0600: 2, H0624: 1, H0713: 1, S0114: 1, H0657: 1, H0341: 1, S0212: 1, H0484: 1, H0449: 1, H0638: 1, S0418: 1, S0442: 1, S0354: 1, S0358: 1, S0444: 1, S0007: 1, S0476: 1, S0300: 1, L0717: 1, S0222: 1, H0587: 1, H0497: 1, S0414: 1, H0485: 1, H0486: 1, H0427: 1, S0280: 1, H0575: 1, H0036: 1, S0346: 1, L0105: 1, S0182: 1, S0474: 1, H0421: 1, H0263: 1, H0544: 1, H0546: 1, H0046: 1, N0006: 1, H0565: 1, H0050: 1, H0012: 1, H0594: 1, H0188: 1, H0687: 1, S0003: 1, H0428: 1, H0535: 1, H0031: 1, H0553: 1,
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H0090: 1, H0616: 1, T0067: 1, T0041: 1, H0560: 1, H0561: 1, S0294: 1, S0440: 1, H0633: 1, H0647: 1, L0762: 1, L0769: 1, L0373: 1, L0372: 1, L0641: 1, L0771: 1, L0773: 1, L0521: 1, L0768: 1, L0794: 1, L0804: 1, L0375: 1, L0806: 1, L0654: 1, L0807: 1, L0657: 1, L0517: 1, L0783: 1, L0792: 1, L0663: 1, S0374: 1, L0565: 1, T0068: 1, H0693: 1, H0593: 1, S0126: 1, H0638: 1, H0670: 1, H0672: 1, S0330: 1, H0539: 1, S0378: 1, S0380: 1, H0525: 1, H0522: 1, H0694: 1, S0176: 1, H0436: 1, L0756: 1, L0779: 1, S0434: 1, S0436: 1, L0592: 1, L0593: 1, L0366: 1, S0026: 1, H0667: 1, H0543: 1, H0422: 1, L0698: 1,
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HODEG95	1012599	469	243 - 749	2644	Arg-33 to Gly-38, Pro-40 to Lys-52,	S0460: 1, H0506: 1 and H0352: 1.		
HCOOX52	1012600	470	2 - 1567	2645	Arg-41 to Gly-65, Pro-88 to Ser-96, Thr-104 to Thr-141, Glu-209 to Asn-214, Arg-263 to Ser-269, Ser-274 to Ala-279, Lys-290 to Ile-296, Lys-320 to Glu-333, Val-517 to Ala-522.	1. H0615: 2 and H0343: 1. L0581: 63, L0748: 35, H0575: 22, L0599: 19, H0046: 17, L0659: 17, L0745: 16, H0510: 15, L0662: 15, L0665: 15, L0747: 14, H0509: 12, L0744: 12, L0754: 12, H0069: 11, L0751: 11, H0574: 10, L0750: 10, H0031: 9, H0124: 9, L0757: 9, H0150: 8, H0039: 8, S0360: 7, S0132: 7, H0644: 7, S0027: 7, S0212: 6, H0393: 6, H0622: 6, H0591: 6, L0803: 6, L0806: 6, H0658: 6, S0044: 6, S0028: 6, S0358: 5, H0549: 5, H0331: 5, H0427: 5, H0251: 5, H0014: 5, H0687: 5, H0059: 5, L0595: 5, L0600: 5, H0632: 4, H0618: 4, H0200: 4, H0090: 4, H0038: 4, L0770: 4,	11q12-q13.11106100, 133780, 147050, 259700, 259770, 600045, 601650, 601884	

L0525: 4, L0809: 4, L0663: 4, H0670: 4, H0555: 4, L0758: 4, L0603: 4, H0650: 3, H0663: 3, H0550: 3, T0060: 3, S0280: 3, H0042: 3, S0314: 3, L0142: 3, H0135: 3, L0763: 3, L0372: 3, L0766: 3, L0775: 3, L0666: 3, H0144: 3, H0693: 3, S0126: 3, H0682: 3, S0380: 3, H0436: 3, S0037: 3, L0759: 3, S0031: 3, H0445: 3, L0361: 3, S0011: 3, H0662: 2, H0619: 2, H0333: 2, H0486: 2, H0013: 2, L0021: 2, H0253: 2, S0010: 2, H0309: 2, H0123: 2, H0246: 2, L0163: 2, H0355: 2, H0188: 2, S0312: 2, H0615: 2, H0688: 2, H0424: 2, H0553: 2, H0617: 2, L0455: 2, H0641: 2, H0646: 2, S0422: 2, L0646: 2, L0794: 2, L0804: 2,
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L0774: 2, L0375: 2, L0805: 2, L0776: 2, L0655: 2, L0559: 2, L0664: 2, L0565: 2, H0684: 2, S3014: 2, L0743: 2, L0439: 2, L0746: 2, L0756: 2, L0605: 2, L0604: 2, L0593: 2, S0196: 2, H0624: 1, H0220: 1, H0222: 1, L0393: 1, H0657: 1, H0656: 1, H0381: 1, H0341: 1, S0298: 1, S0282: 1, H0254: 1, H0255: 1, H0661: 1, H0638: 1, S0007: 1, S0300: 1, H0411: 1, S0278: 1, S6022: 1, H0441: 1, H0431: 1, H0357: 1, H0586: 1, H0587: 1, H0497: 1, H0635: 1, L0022: 1, H0318: 1, S0474: 1, H0581: 1, S0049: 1, H0052: 1, H0205: 1, H0545: 1, H0457: 1, H0086: 1, H0081: 1, H0050: 1, H0012: 1, H0024: 1, H0015: 1, H0051: 1,
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S6028: 1, S0318: 1, S0316: 1, S0250: 1, H0328: 1, L0483: 1, T0006: 1, S0364: 1, S0366: 1, H0598: 1, H0616: 1, H0087: 1, H0264: 1, H0488: 1, T0004: 1, H0334: 1, H0625: 1, H0652: 1, S0002: 1, L0762: 1, L0640: 1, L0631: 1, L0769: 1, L0637: 1, L0667: 1, L0645: 1, L0764: 1, L0771: 1, L0773: 1, L0649: 1, L0651: 1, L0653: 1, L0658: 1, L0384: 1, L0545: 1, L0791: 1, S0428: 1, H0520: 1, H0593: 1, H0689: 1, H0659: 1, H0672: 1, S0328: 1, S0330: 1, S0378: 1, L0602: 1, H0518: 1, H0187: 1, S0118: 1, S3012: 1, S0390: 1, L0741: 1, L0742: 1, L0740: 1, L0752: 1, L0731: 1, H0595: 1, L0362: 1, H0668: 1, H0543: 1,						
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HVVR10	1012618	471	3 - 1079	2646	Lys-52 to Ser-59, Lys-121 to Pro-128, Ser-183 to Thr-189.	H0422: 1, S0042: 1, H0008: 1 and H0352: 1, L0439: 13, L0748: 11, L0601: 8, L0747: 7, L0750: 7, L0438: 5, L0757: 5, L0770: 4, L0769: 4, L0764: 4, L0766: 4, L0731: 4, L0803: 3, L0775: 3, L0666: 3, H0521: 3, L0751: 3, L0758: 3, S0418: 2, H0550: 2, H0013: 2, H0052: 2, H0622: 2, H0494: 2, L0646: 2, L0771: 2, L0774: 2, L0663: 2, L0565: 2, H0593: 2, H0689: 2, H0672: 2, S0328: 2, L0752: 2, L0587: 2, L0600: 2, H0556: 1, H0583: 1, H0656: 1, H0341: 1, S0001: 1, S0360: 1, H0549: 1, H0455: 1, H0586: 1, H0587: 1, H0156: 1, H0253: 1, H0318: 1, H0581: 1, T0110: 1, H0150: 1, H0019: 1, H0050: 1, H0620: 1, S0050: 1.		
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HVV/BK78	1012645	472	44 - 643	2647	Arg-11 to Arg-20.	H0373: 1, H0355: 1, S6028: 1, H0271: 1, S0003: 1, H0252: 1, H0553: 1, H0644: 1, H0124: 1, S0036: 1, H0135: 1, H0616: 1, H0264: 1, H0056: 1, L0435: 1, S0344: 1, S0422: 1, S0002: 1, H0529: 1, L0763: 1, L0372: 1, L0773: 1, L0768: 1, L0794: 1, L0653: 1, L0776: 1, L0655: 1, L0659: 1, L0783: 1, L0792: 1, L0664: 1, L0665: 1, H0144: 1, S0126: 1, H0659: 1, H0658: 1, H0670: 1, S0330: 1, S3012: 1, S0027: 1, L0740: 1, L0754: 1, L0749: 1, L0779: 1, L0753: 1, L0755: 1, L0759: 1, L0592: 1, L0595: 1, H0543: 1, UNKWN: 1 and H0352: 1.		
HVV/BK73	1012646	473	2 - 745	2648	Arg-11 to Arg-20.	H0672: 1 and S3014: 1, H0036: 1, H0644: 1, H0672: 1 and L0603: 1.	7q34-qter	

HCOMW35	1012652	474	3 - 527	2649	Asp-49 to Asp-59, Asp-110 to Ile-115, Trp-137 to Ser-144.	L0766: 10, S0358: 4, H0318: 3, L0809: 3, S0360: 2, H0617: 2, H0264: 2, L0769: 2, L0775: 2, H0670: 2, H0462: 1, H0646: 1, L0761: 1, L0764: 1, L0771: 1, L0773: 1, L0805: 1, L0787: 1, S0374: 1, H0684: 1, L0779: 1 and L0758: 1.	22q13.31	250100, 250800, 250800
HVVB128	1012654	475	2 - 1117	2650	Arg-1 to Gly-12, Gly-19 to Trp-25, Asp-31 to Gly-39, Gly-43 to Glu-52, Ala-63 to His-71, Asn-141 to Phe-152, Leu-200 to Leu-208.	L0803: 4, L0745: 4, L0758: 4, H0672: 3, S0007: 2, H0090: 2, L0769: 2, L0804: 2, L0774: 2, L0809: 2, L0439: 2, L0749: 2, L0731: 2, L0599: 2, L0362: 2, S0418: 1, S0360: 1, S0046: 1, H0431: 1, H0486: 1, H0013: 1, L0021: 1, H0042: 1, S0010: 1, H0052: 1, H0046: 1, H0024: 1, H0266: 1, H0687: 1, S0022: 1, H0553: 1, L0770: 1, L0794: 1, L0783: 1, L0529: 1, H0435: 1, S0152: 1, H0521: 1.	4q27-q28	107250, 134820, 134820, 134820, 134820, 134830, 134850, 134850, 147680, 181600, 189800, 266300, 600919

HVVR45	1012657	476	102 - 1742	2651	Arg-23 to Thr-28, Val-58 to Leu-67, Pro-115 to Thr-122.	S0044: 1, H0555: 1, S0260: 1, L0366: 1, H0543: 1 and H0352: 1, L0747: 15, L0740: 14, L0779: 13, L0439: 9, L0731: 9, L0748: 8, L0776: 7, L0455: 6, L0769: 6, L0744: 6, L0756: 6, L0758: 6, S0328: 5, H0521: 5, L0752: 5, H0295: 4, L0717: 4, L0663: 4, H0672: 4, S0360: 3, S0046: 3, H0427: 3, H0599: 3, H0036: 3, H0687: 3, S0250: 3, S0022: 3, S0036: 3, L0770: 3, L0662: 3, L0774: 3, L0806: 3, L0783: 3, S0052: 3, H0144: 3, S0126: 3, H0660: 3, H0539: 3, L0742: 3, S0194: 3, H0556: 2, T0049: 2, H0662: 2, S0045: 2, H0619: 2, L0622: 2, H0013: 2, H0318: 2, S0049: 2, H0356: 2, H0553: 2, S0364: 2, S0366: 2, H0551: 2,	17q21.3	109270, 109270, 109270, 109270, 109270, 148065, 148080, 154275, 156490, 171190, 185800, 221820, 249000, 253250, 600119, 600119, 600525, 601844
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HVVA41	1012665	477	59-550	2652	Pro-58 to Ser-64.	S0260: 1, H0595: 1, L0591: 1, L0601: 1, L0366: 1, H0665: 1, H0667: 1, S0458: 1, S0446: 1 and H0352: 1. L0740: 15, L0748: 14, L0752: 10, H0494: 9, L0745: 9, H0013: 7, L0774: 7, L0754: 7, S0358: 6, S0444: 6, L0771: 6, S0374: 6, L0471: 5, H0032: 5, L0646: 5, L0655: 5, H0580: 4, H0574: 4, H0014: 4, H0373: 4, S0003: 4, H0529: 4, L0770: 4, L0766: 4, L0659: 4, L0665: 4, H0624: 3, S0376: 3, S0360: 3, S0408: 3, H0592: 3, H0039: 3, H0090: 3, T0042: 3, L0773: 3, L0662: 3, L0775: 3, L0663: 3, L0581: 3, H0423: 3, H0156: 2, H0599: 2, H0575: 2, H0590: 2, H0318: 2, H0581: 2, H0457: 2, H0123: 2, H0356: 2, H0553: 2,	11q23	107680, 107680, 107680, 107680, 107680, 107720, 133780, 147791, 159555, 168000, 186740, 186830, 188025, 203750, 261640, 600048, 601382, 602574, 602574
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HVVAS32	1012668	478	105 - 2138	2653	H0542: 1, H0543: 1, S0424: 1, S0452: 1 and S0458: 1. L0439: 7, S0136: 5, L0438: 4, L0749: 4, L0777: 4, L0752: 4, S0010: 3, H0672: 3, S0116: 2, L0717: 2, H0013: 2, H0057: 2, H0068: 2, H0551: 2, S0002: 2, L0763: 2, L0662: 2, L0794: 2, L0766: 2, L0803: 2, L0805: 2, L0776: 2, L0547: 2, L0789: 2, L0666: 2, L0663: 2, H0670: 2, H0521: 2, H0555: 2, L0748: 2, L0751: 2, L0747: 2, L0731: 2, L0758: 2, L0759: 2, L0599: 2, H0170: 1, T0002: 1, S0040: 1, S0212: 1, S0358: 1, S0045: 1, S0046: 1, H0619: 1, H0393: 1, H0392: 1, H0409: 1, H0485: 1, H0486: 1, H0244: 1, H0427: 1, L0021: 1, S0346: 1, H0196: 1,	3q13	146200, 190300, 258900, 600882
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HVVAQ70	1012678	479	131 - 982	2654	<p>Leu-59 to Cys-66, Gln-74 to Leu-82, Asn-107 to Arg-121, Thr-160 to Ser-166, Lys-198 to Ile-203.</p>	<p>H0052: 1, H0596: 1, H0150: 1, H0562: 1, H0024: 1, H0373: 1, T0010: 1, S6028: 1, H0687: 1, T0023: 1, H0553: 1, H0644: 1, S0364: 1, H0090: 1, H0040: 1, H0616: 1, T0067: 1, H0413: 1, S0038: 1, S0386: 1, S0150: 1, H0641: 1, L0520: 1, L0770: 1, L0637: 1, L0772: 1, L0372: 1, L0646: 1, L0800: 1, L0773: 1, L0768: 1, L0659: 1, L0782: 1, L0663: 1, H0144: 1, H0520: 1, H0593: 1, H0659: 1, H0658: 1, S0328: 1, S0044: 1, S0037: 1, S0028: 1, L0740: 1, L0756: 1, L0779: 1, L0780: 1, H0665: 1, S0192: 1 and S0194: 1, L0747: 13, L0731: 10, H0144: 8, L0809: 6, L0604: 6, L0769: 5, L0666: 5, L0663: 5, L0740: 5, L0759: 5,</p>	8p11.2	<p>136350, 152760, 180100, 182900, 277700,</p>
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600617		L0471: 4, L0659: 4, L0752: 4, L0755: 4, L0592: 4, L0763: 3, L0764: 3, L0756: 3, S0026: 3, H0657: 2, H0013: 2, H0052: 2, H0687: 2, H0039: 2, L0455: 2, L0772: 2, L0766: 2, L0775: 2, L0805: 2, L0665: 2, S0126: 2, H0659: 2, H0521: 2, L0750: 2, L0779: 2, L0588: 2, L0605: 2, L0593: 2, L0362: 2, H0170: 1, H0171: 1, L0448: 1, H0686: 1, S0114: 1, S0134: 1, H0583: 1, S0212: 1, H0663: 1, S0420: 1, S0358: 1, H0580: 1, S0007: 1, S0046: 1, H0393: 1, L0717: 1, H0411: 1, H0261: 1, S0222: 1, H0632: 1, L0623: 1, T0039: 1, H0069: 1, H0427: 1, H0156: 1, H0597: 1, H0546: 1, H0373: 1, S0051: 1, T0010: 1, S0214: 1,

HVVAQ22	1012684	480	43 - 573	2655	His-1 to Asn-13, Ser-31 to Ser-42, Glu-47 to Val-55, Glu-65 to Val-70, Ile-95 to Asp-100,	H0031: 1, H0090: 1, H0038: 1, H0063: 1, H0087: 1, H0351: 1, H0413: 1, S0038: 1, T0042: 1, H0494: 1, H0560: 1, H0142: 1, L0520: 1, L0637: 1, L0800: 1, L0773: 1, L0521: 1, L0662: 1, L0768: 1, L0794: 1, L0803: 1, L0804: 1, L0774: 1, L0806: 1, L0776: 1, L0655: 1, L0657: 1, L0512: 1, L0558: 1, L0636: 1, L0635: 1, H0520: 1, H0519: 1, H0684: 1, H0660: 1, H0666: 1, H0672: 1, S0330: 1, H0522: 1, H0576: 1, S3014: 1, L0742: 1, L0758: 1, H0444: 1, L0594: 1, H0667: 1, H0136: 1, H0543: 1 and H0506: 1		
						L0731: 25, H0696: 17, L0754: 13, S0192: 13, L0809: 12, L0750: 12, L0757: 10, L0519: 9, L0605: 8, L0748: 7,	3cen-q21	

Lys-107 to Phe-118, Asp-121 to Asn-127, Cys-136 to Lys-142, Met-165 to Glu-177.	H0411: 6, L0517: 6, H0672: 6, L0747: 6, H0369: 5, L0663: 5, S0330: 5, L0758: 5, S0358: 4, H0674: 4, L0764: 4, L0776: 4, L0783: 4, L0740: 4, S0360: 3, H0645: 3, H0550: 3, H0616: 3, L0662: 3, L0775: 3, H0144: 3, H0684: 3, L0777: 3, L0590: 3, L0599: 3, S0026: 3, S0444: 2, H0489: 2, T0039: 2, H0575: 2, H0597: 2, H0545: 2, H0015: 2, H0031: 2, H0111: 2, H0032: 2, H0169: 2, H0038: 2, T0069: 2, S0440: 2, L0772: 2, L0363: 2, L0768: 2, L0804: 2, L0782: 2, L0384: 2, L0565: 2, S0126: 2, S0328: 2, S0013: 2, H0345: 2, L0743: 2, L0749: 2, L0756: 2, L0759: 2, S0260: 2, H0506: 2, H0624: 1, H0171: 1, S0342: 1.
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H0664: 1, H0662: 1, S0408: 1, H0339: 1, S0300: 1, L0717: 1, H0600: 1, H0592: 1, H0587: 1, H0486: 1, H0013: 1, T0082: 1, S0346: 1, S0474: 1, H0251: 1, H0085: 1, H0596: 1, H0231: 1, H0544: 1, H0123: 1, T0003: 1, H0014: 1, L0163: 1, H0375: 1, H0687: 1, S0214: 1, H0328: 1, H0553: 1, H0644: 1, H0163: 1, H0090: 1, H0551: 1, H0264: 1, L0386: 1, L0533: 1, L0774: 1, L0376: 1, L0784: 1, L0378: 1, L0653: 1, L0654: 1, L0559: 1, L0659: 1, L0518: 1, L0530: 1, L0788: 1, L0791: 1, L0666: 1, L0665: 1, H0693: 1, H0658: 1, H0670: 1, S0378: 1, S0380: 1, S0044: 1, S0190: 1, S0174: 1, S0168: 1, L0751: 1, L0779: 1,
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HTAES83	1012693	481	200 - 2128	2656	Pro-55 to Asp-61, Gln-66 to Leu-72.	L0780: 1, S0031: 1 and S0412: 1. H0457: 7, H0521: 7, H0150: 5, H0585: 4, H0255: 3, H0546: 3, H0617: 3, S0002: 3, L0659: 3, H0522: 3, S0434: 3, H0650: 2, H0254: 2, S0442: 2, S0376: 2, H0250: 2, S0003: 2, H0039: 2, H0553: 2, L0771: 2, L0662: 2, L0766: 2, H0689: 2, H0682: 2, L0751: 2, H0657: 1, S0116: 1, H0402: 1, S0418: 1, S0358: 1, S0360: 1, S0132: 1, S6026: 1, L0717: 1, S0278: 1, H0549: 1, H0610: 1, H0257: 1, H0559: 1, H0069: 1, H0581: 1, H0544: 1, H0271: 1, H0687: 1, H0286: 1, S0314: 1, H0688: 1, T0023: 1, H0606: 1, H0163: 1, H0063: 1, H0264: 1, S0464: 1, S0440: 1, H0647: 1, S0344: 1.	11q13.4- q13.5	133780, 266150, 276903, 276903, 276903
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HOCMN67	1012700	482	1 - 1182	2657		H0695: 1, L0770: 1, L0638: 1, L0761: 1, L0667: 1, L0642: 1, L0643: 1, L0764: 1, L0651: 1, L0654: 1, L0783: 1, L0788: 1, L0789: 1, L0665: 1, S0052: 1, H0144: 1, H0703: 1, H0547: 1, H0593: 1, H0690: 1, H0658: 1, H0672: 1, S0378: 1, S0406: 1, H0555: 1, H0436: 1, S0027: 1, L0758: 1, H0707: 1, S0011: 1, H0542: 1 and H0423: 1.	11q13	102200, 106100, 131100, 131100, 131100, 133780, 147050, 153700, 161015, 164009, 168461, 168461, 168461, 180721,
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HAPOW35	1012711	483	92 - 619	2658	Ile-32 to Phe-42.	H0618: 1, H0318: 1, H0544: 1, H0046: 1, H0123: 1, H0081: 1, T0010: 1, H0083: 1, H0271: 1, H0553: 1, H0163: 1, S0002: 1, S0052: 1, H0702: 1, H0703: 1, S0374: 1, H0520: 1, H0547: 1, H0690: 1, H0672: 1, H0539: 1, S0380: 1, S0406: 1, H0576: 1, H0445: 1, S0434: 1, L0601: 1, L0366: 1, H0422: 1 and H0506: 1.	180840, 191181, 193235, 209901, 232600, 259700, 259770, 600045, 600319, 600528, 601884
						S0418: 2, S0328: 2, H0521: 2, H0733: 1, S0132: 1, H0575: 1, H0024: 1, H0135: 1, H0038: 1, S0038: 1, S0406: 1, L0439: 1 and H0543: 1.	
HOVJM48	1013085	484	2 - 454	2659		H0688: 2, L0766: 2, H0494: 1, L0652: 1, L0731: 1 and L0759: 1.	
HBJHY84	1013213	485	1524 - 208	2660	Gln-1 to Asp-24, Phe-40 to Gln-46.	L0766: 12, L0758: 8, S0422: 7, L0794: 6, H0622: 5, H0666: 5, L0754: 5, L0592: 5, H0040: 4, L0663: 4,	

H0520: 4, L0666: 3, L0664: 3, L0665: 3, H0547: 3, L0756: 3, L0777: 3, L0731: 3, L0759: 3, S0434: 3, H0423: 3, H0624: 2, H0583: 2, S0116: 2, H0318: 2, H0581: 2, H0428: 2, L0598: 2, L0655: 2, H0690: 2, H0518: 2, H0170: 1, H0686: 1, S0134: 1, H0657: 1, H0656: 1, H0483: 1, S0376: 1, S0360: 1, S0408: 1, H0580: 1, H0329: 1, H0486: 1, H0575: 1, H0596: 1, H0046: 1, H0267: 1, H0063: 1, H0022: 1, H0625: 1, S0440: 1, S0472: 1, H0529: 1, L0761: 1, L0646: 1, L0662: 1, L0768: 1, L0364: 1, L0649: 1, L0803: 1, L0650: 1, L0774: 1, L0651: 1, L0784: 1, L0805: 1, L0607: 1, L0659: 1, L0787: 1, L0792: 1, H0519: 1,
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HODEY05	1013215	486	525 - 701	2661		Val-10 to Ser-18, Pro-30 to Glu-36, Glu-47 to Gly-54.		H0428: 2, S0114: 1, H0656: 1, H0263: 1, H0615: 1, H0684: 1 and L0749: 1.			
HFIAS44	1013288	487	112 - 1629	2662		Arg-31 to Leu-43, Gly-63 to Trp-78, Thr-84 to Pro-89, Asp-120 to Gly-141, Glu-155 to Val-177, Leu-204 to Ser-214, Pro-230 to Lys-236, Lys-300 to Lys-307, Arg-329 to Ile-340, Pro-343 to Ala-368, Glu-375 to Pro-434, Leu-441 to Lys-446, Lys-464 to Glu-495.			14		
HHAUD68	1013349	488	212 - 538	2663		Gly-1 to Pro-6, Pro-21 to Ser-44, Pro-51 to Lys-78.		L0740: 4, H0591: 3, H0583: 2, H0013: 2, H0575: 2, H0266: 2,	6p21.3	106300, 108800, 120290,	

				Asp-80 to Ser-95, Leu-97 to Glu-103.	H0264: 2, L0805: 2, H0144: 2, S0330: 2, L0439: 2, H0445: 2, H0170: 1, H0556: 1, S0040: 1, S0218: 1, H0656: 1, H0125: 1, S0418: 1, S0376: 1, H0587: 1, H0497: 1, T0039: 1, H0069: 1, H0635: 1, H0599: 1, H0590: 1, H0318: 1, H0052: 1, H0596: 1, H0050: 1, S0003: 1, H0622: 1, H0090: 1, H0038: 1, H0634: 1, H0616: 1, H0551: 1, H0488: 1, S0016: 1, H0561: 1, S0002: 1, L0654: 1, L0518: 1, S0374: 1, S0126: 1, H0659: 1, H0660: 1, H0672: 1, H0651: 1, H0539: 1, H0521: 1, H0555: 1, L0750: 1, L0756: 1, L0757: 1, L0596: 1, L0590: 1, L0592: 1, S0026: 1, H0217: 1 and H0542: 1.	120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261, 177900, 179450, 201910, 217000, 222100, 233100, 235200, 248611, 256550, 256550, 600202, 600261, 601868, 602280, 602475	
HEEAA89	1013436	489	1 - 675	2664	Trp-4 to Ser-11, Asn-17 to Arg-23.	L0748: 6, S0422: 4, H0658: 4, L0717: 3, 15q13	103581, 146150,

H0059: 3, L0769: 3, L0764: 3, H0352: 3, S0410: 2, H0632: 2, H0599: 2, H0046: 2, H0038: 2, H0264: 2, H0646: 2, S0002: 2, H0529: 2, L0766: 2, L0653: 2, L0659: 2, L0439: 2, L0601: 2, S0134: 1, H0583: 1, L0785: 1, S0116: 1, S0212: 1, H0255: 1, S0418: 1, S0358: 1, S0444: 1, H0675: 1, H0728: 1, H0619: 1, H0549: 1, H0392: 1, H0331: 1, T0109: 1, H0013: 1, H0635: 1, H0618: 1, S0010: 1, S0474: 1, H0052: 1, L0157: 1, H0050: 1, H0051: 1, H0375: 1, H0039: 1, H0553: 1, H0644: 1, L0456: 1, S0036: 1, H0625: 1, H0633: 1, L0637: 1, L0773: 1, L0768: 1, L0794: 1, L0522: 1, L0509: 1, L0661: 1, L0526: 1, L0809: 1,	218000, 227220, 601623, 601800, 601889, 602117
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HNTAK22	1013524	490	2 - 3175	2665	Lys-1 to Lys-21.		H0519: 2, S0126: 2, H0341: 1, H0125: 1, L0562: 1, S0049: 1, H0123: 1, H0687: 1, H0292: 1, H0284: 1, S0312: 1, S0250: 1, H0622: 1, S0456: 1, L0649: 1, S0037: 1 and H0677: 1.		
HOVBX78	1013687	491	185 - 646	2666			AR096: 62, AR104: 41, AR089: 24, AR060: 24, AR061: 20, AR033: 16, AR053: 11, AR055: 11, AR039: 6 H0644: 5, L0439: 4, L0438: 3, S0278: 2, L0483: 2, H0581: 1, H0046: 1, H0355: 1, H0266: 1, H0038: 1, H0670: 1, H0521: 1, S0027: 1, L0740: 1 and		

HVVAW74	1013740	492	1066 - 575	2667	Ala-16 to His-30, Leu-106 to Gly-112, Asp-129 to Pro-137, Thr-144 to Leu-150	S0260: 1, L0526: 11, L0622: 8, H0670: 8, H0087: 7, S0360: 5, H0594: 5, H0188: 5, H0412: 5, S0206: 5, H0218: 4, S0418: 4, H0318: 4, H0024: 4, H0617: 4, L0770: 4, L0783: 4, S0328: 4, S0027: 4, H0265: 3, H0663: 3, T0048: 3, H0597: 3, H0123: 3, H0673: 3, S0366: 3, H0135: 3, H0616: 3, S0002: 3, L0775: 3, L0776: 3, L0518: 3, L0663: 3, H0144: 3, S0374: 3, S0126: 3, S0380: 3, S3014: 3, H0352: 3, H0624: 2, H0556: 2, H0219: 2, S0114: 2, H0657: 2, H0341: 2, S0110: 2, H0661: 2, H0305: 2, H0351: 2, H0492: 2, T0039: 2, H0052: 2, H0546: 2, H0178: 2, H0083: 2, H0688: 2, H0068: 2, H0038: 2, H0040: 2,	19pter-q12	
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HSPSF84	1013853	493	645 - 205	2668	Ser-4 to Arg-9, Ala-97 to Asp-104.	H0063: 1, H0551: 1, H0413: 1, H0102: 1, H0560: 1, S0372: 1, H0130: 1, S0144: 1, S0344: 1, S0422: 1, L0598: 1, L0507: 1, L0639: 1, L0648: 1, L0662: 1, L0767: 1, L0524: 1, L0805: 1, L0659: 1, L0542: 1, L0809: 1, L0530: 1, L0789: 1, H0691: 1, H0520: 1, H0519: 1, H0682: 1, H0684: 1, H0659: 1, H0658: 1, H0648: 1, H0672: 1, S0378: 1, S0152: 1, S0174: 1, H0576: 1, L0612: 1, H0540: 1, L0748: 1, L0740: 1, L0752: 1, L0758: 1, S0436: 1, L0485: 1, L0599: 1, L0608: 1, L0595: 1, L0362: 1, L0366: 1, S0106: 1, H0543: 1, S0446: 1, L0600: 1 and H0008: 1.	S0358: 6, H0024: 3, H0696: 3, L0581: 3, H0123: 2, L0776: 2,
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HPAMV95	1014003	494	3 - 713	2669	Lys-70 to Tyr-79, Lys-97 to Asp-102, Ser-154 to Ser-160, Asn-162 to Cys-169, Lys-212 to Ser-217, Ala-225 to Glu-230.	L0783: 2, H0658: 2, H0670: 2, H0648: 2, H0657: 1, S0116: 1, S0001: 1, H0661: 1, H0663: 1, H0450: 1, S6022: 1, H0438: 1, H0013: 1, S0280: 1, T0082: 1, H0421: 1, H0428: 1, T0067: 1, H0477: 1, S0038: 1, H0494: 1, L0762: 1, L0371: 1, L0800: 1, L0644: 1, L0773: 1, L0648: 1, L0662: 1, L0775: 1, L0375: 1, L0378: 1, L0806: 1, L0657: 1, L0666: 1, L0664: 1, H0682: 1, H0683: 1, S0378: 1, L0748: 1, L0751: 1, L0747: 1, L0753: 1, L0608: 1 and H0543: 1.	L0603: 8, L0754: 6, L0757: 4, L0758: 4, H0619: 3, H0622: 3, S0354: 2, S0360: 2, H0351: 2, H0586: 2, H0544: 2, N0006: 2, S0250: 2, H0030: 2, H0644: 2, H0617: 2,	17q25	114290, 138033, 162100, 170500, 170500, 170500, 180860, 264470
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						H0032: 2, S0144: 2, L0803: 2, L0565: 2, L0438: 2, L0439: 2, S0418: 1, S0358: 1, S0278: 1, H0392: 1, H0592: 1, H0587: 1, L0021: 1, H0052: 1, H0546: 1, T0010: 1, H0271: 1, H0687: 1, S0214: 1, T0006: 1, H0031: 1, H0553: 1, L0142: 1, H0606: 1, H0087: 1, S0142: 1, S0208: 1, S0426: 1, L0761: 1, L0772: 1, L0800: 1, L0648: 1, L0662: 1, L0774: 1, L0653: 1, L0776: 1, L0782: 1, L0664: 1, H0519: 1, H0689: 1, H0690: 1, H0682: 1, H0658: 1, H0672: 1, H0555: 1, L0749: 1, L0756: 1, L0779: 1, L0755: 1, L0591: 1, S0026: 1, S0192: 1 and S0196: 1.		
HOVBX22	1014041	495	223 - 312	2670	Ile-3 to Ser-11, Arg-24 to Glu-30.	H0428: 3		
HPDRB63	1014204	496	2 - 571	2671		H0123: 2, L0764: 2,		

							L0794: 2, L0803: 2, S0356: 1, H0318: 1, H0551: 1, L0662: 1, L0804: 1, H0658: 1, H0539: 1, L0786: 1, H0543: 1 and H0423: 1.			
HNHGI66	1014252	497	2201 - 2467	2672			Lys-1 to Ser-8, Asn-32 to Asn-41, Gln-48 to Glu-53, Arg-73 to Ser-89.			
HDPPN96	1014432	498	395 - 2434	2673			Met-8 to Lys-13, Met-46 to Lys-52, Leu-89 to Lys-95, Ala-100 to Val-109, Pro-131 to Ser-160, Arg-172 to Thr-178.	1q22		104770, 107670, 110700, 145001, 146790, 159440, 159440, 159440, 186780, 191030, 191315, 600923, 601412, 601652, 602491
HPCTH41	1014485	499	165 - 890	2674			Ala-15 to Tyr-24, His-32 to Lys-48, Ala-60 to Gly-73, Ser-82 to Phe-88,	11q25		602782

Phe-105 to Phe-111, Phe-124 to Thr-138, Glu-211 to Val-217, Val-219 to Gln-224	L0662: 4, L0659: 4, L0745: 4, L0655: 3, L0666: 3, L0663: 3, S0052: 3, L0748: 3, L0747: 3, L0750: 3, H0170: 2, S0360: 2, S0046: 2, H0013: 2, L0771: 2, L0768: 2, L0794: 2, L0803: 2, L0805: 2, L0664: 2, H0144: 2, L0565: 2, H0658: 2, H0710: 2, L0740: 2, L0749: 2, L0757: 2, L0608: 2, H0556: 1, H0686: 1, H0294: 1, S0114: 1, S0282: 1, S0029: 1, H0306: 1, L0005: 1, S0356: 1, S0300: 1, H0351: 1, H0369: 1, S0222: 1, H0587: 1, T0060: 1, H0250: 1, H0635: 1, H0156: 1, S0010: 1, H0052: 1, H0263: 1, H0596: 1, L0738: 1, H0545: 1, H0103: 1, S0051: 1, S0003: 1, S0214: 1, S0328: 1, L0143: 1, H0616: 1, H0412: 1,
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HPCTY73	1014646	500	2 - 2299	2675	Cys-5 to Gly-10, Ala-22 to Pro-31, Lys-107 to Pro-114, Ala-149 to Arg-157, Ile-294 to Leu-299, Ser-356 to Pro-363, Pro-384 to Phe-392,	L0564: 1, S0440: 1, UNKWN: 1, L0598: 1, H0529: 1, L0763: 1, L0371: 1, L0769: 1, L0638: 1, L0761: 1, L0646: 1, L0773: 1, L0648: 1, L0521: 1, L0649: 1, L0389: 1, L0806: 1, L0776: 1, L0657: 1, L0656: 1, L0783: 1, L0382: 1, L0529: 1, L0791: 1, S0374: 1, L0438: 1, H0547: 1, H0659: 1, H0648: 1, S0378: 1, H0522: 1, H0704: 1, S0406: 1, H0436: 1, L0742: 1, L0744: 1, L0756: 1, L0786: 1, L0752: 1, H0444: 1, L0589: 1, L0593: 1, L0362: 1, H0542: 1, S0446: 1 and H0352: 1, L0591: 18, S0027: 14, H0124: 12, L0596: 11, H0040: 10, S3014: 10, L0608: 10, H0519: 8, L0757: 8, H0556: 7, S0132: 7, S0126: 7, S0192: 7, S0358: 6,	7p15	138079, 138079, 139191, 142959, 153880, 180104, 600994,
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Ala-474 to Gly-481, Ala-489 to Tyr-494, Pro-512 to Lys-517, Arg-623 to Thr-630, Lys-673 to Ser-678, Thr-703 to His-709, Arg-714 to Arg-720, Gly-755 to Glu-766.	H0543: 6, S0040: 5, S0003: 5, S0022: 5, S0214: 5, S0144: 5, S0037: 5, L0747: 5, L0777: 5, L0362: 5, S0026: 5, T0039: 4, H0318: 4, H0266: 4, H0560: 4, L0590: 4, L0599: 4, L0594: 4, S0011: 4, H0265: 3, H0657: 3, S0116: 3, H0663: 3, S0360: 3, S0045: 3, H0497: 3, H0559: 3, S0010: 3, H0052: 3, L0483: 3, H0090: 3, H0494: 3, L0766: 3, L0659: 3, L0666: 3, H0435: 3, L0602: 3, S0312: 3, L0740: 3, L0750: 3, L0731: 3, L0759: 3, H0542: 3, S0212: 2, H0431: 2, H0024: 2, H0014: 2, H0083: 2, H0428: 2, H0628: 2, H0617: 2, H0634: 2, H0551: 2, L0065: 2, H0509: 2, S0150: 2, S0210: 2, H0529: 2, L0770: 2, L0768: 2.
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HCOPQ33	1014730	501	3 - 380	2676	Ser-3 to Gln-34, Pro-43 to Ser-48, Pro-51 to Tyr-69, Asn-87 to Pro-92, Pro-107 to Val-119.	H0008: 1, S0360: 8, S0356: 6, L0769: 6, L0598: 4, L0666: 4, L0750: 4, L0779: 4, L0758: 4, H0013: 3, L0803: 3, L0517: 3, L0809: 3, S0222: 2, H0592: 2, L0471: 2, H0169: 2, L0761: 2, L0764: 2, L0771: 2, L0776: 2, L0783: 2, L0664: 2, H0144: 2, H0670: 2, S0380: 2, L0748: 2, L0747: 2, L0777: 2, S0026: 2, H0624: 1, H0171: 1, S0040: 1, S6024: 1, L0002: 1, H0663: 1, L0005: 1, S6026: 1, H0351: 1, H0455: 1, H0600: 1, T0040: 1, H0244: 1, S0010: 1, H0052: 1, L0738: 1, S0316: 1, H0328: 1, H0615: 1, H0388: 1, H0135: 1, T0067: 1, H0059: 1, H0560: 1, H0647: 1, L0763: 1, L0646: 1, L0773: 1, L0662: 1,		
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HOEBR36	1014754	502	396 - 1061	2677			T0004: 2, L0372: 1, L0521: 1, L0806: 1, S0126: 1, H0435: 1 and L0731: 1.		
HLWDZ66	1014849	503	3 - 695	2678	Asp-24 to Val-36, Lys-38 to Glu-49, Pro-80 to Ser-90, Thr-131 to Gly-138.		AR096: 5, AR033: 4, AR089: 3, AR053: 3, AR052: 3, AR060: 3, AR039: 2, AR104: 1, AR055: 1, AR061: 1 L0803: 6, L0759: 6, L0666: 4, L0805: 3, L0756: 3, L0362: 3, S0442: 2, L0646: 2, L0794: 2, L0766: 2, L0659: 2, H0144: 2, L0438: 2, H0520: 2, L0779: 2, L0596: 2, H0423: 2, L0600: 2, H0170: 1, S0114: 1, H0650: 1, S0358: 1,		

HOER36	1014869	504	3051 - 2260	2679	Ala-32 to Ala-38, Pro-55 to Glu-72, Ala-83 to Glu-109, Glu-114 to Leu-121, Thr-135 to Lys-143, Leu-149 to Lys-166, Val-173 to Ser-178, Lys-185 to Thr-195, Pro-208 to Thr-214, Gln-243 to Arg-253, Lys-259 to Lys-264,	S0444: 1, S0360: 1, H0329: 1, S0222: 1, H0497: 1, H0036: 1, S0474: 1, H0051: 1, H0687: 1, S0214: 1, H0615: 1, H0428: 1, H0622: 1, H0553: 1, H0598: 1, H0040: 1, H0634: 1, L0060: 1, T0041: 1, S0422: 1, L0773: 1, L0774: 1, L0657: 1, L0809: 1, L0789: 1, L0664: 1, S0126: 1, H0689: 1, H0435: 1, H0670: 1, L0748: 1, L0439: 1, L0731: 1, S0031: 1 and S0434: 1.	L0439: 13, L0766: 11, L0747: 11, L0740: 10, L0752: 9, L0776: 8, L0809: 7, L0777: 7, L0769: 6, L0803: 6, L0748: 6, L0759: 6, L0764: 5, H0659: 5, L0755: 5, L0761: 4, L0806: 4, L0438: 4, L0749: 4, L0779: 4, L0758: 4, H0083: 3, L0796: 3, L0662: 3,	6p23	125264, 600511, 601556
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HE8OX75	1015010	505	18 - 170	2680	Ser-1 to Tyr-6.	H0046: 1, N0006: 1, H0123: 1, L0471: 1, S0388: 1, S0214: 1, H0252: 1, L0483: 1, H0553: 1, S0036: 1, H0591: 1, H0038: 1, H0040: 1, H0616: 1, T0067: 1, H0413: 1, S0386: 1, T0042: 1, H0560: 1, L0598: 1, H0529: 1, L0520: 1, L0762: 1, L0772: 1, L0646: 1, L0771: 1, L0794: 1, L0375: 1, L0805: 1, L0657: 1, L0367: 1, L0787: 1, L0666: 1, H0144: 1, S0126: 1, H0648: 1, H0672: 1, S0328: 1, H0521: 1, S0037: 1, L0754: 1, L0757: 1, H0444: 1, L0591: 1, H0667: 1, H0216: 1 and H0543: 1. L0803: 4, L0745: 3, L0804: 2, L0805: 2, H0672: 2, L0742: 2, L0752: 2, L0759: 2, H0583: 1, H0069: 1, H0550: 1, H0013: 1.
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HVAS106	1015024	506	67 - 1365	2681					H0156: 1, H0085: 1, L0351: 1, H0509: 1, L0769: 1, L0776: 1, L0657: 1, L0809: 1, L0666: 1, H0684: 1, L0439: 1, L0779: 1, L0777: 1, L0753: 1, L0757: 1 and H0444: 1. L0809: 8, L0666: 8, S0436: 8, H0038: 6, S0330: 6, S0442: 5, S0440: 5, L0662: 5, L0794: 5, L0663: 5, H0040: 4, L0776: 4, L0664: 4, L0740: 4, L0754: 4, L0601: 4, S0358: 3, S0376: 3, S0444: 3, L0157: 3, L0763: 3, L0770: 3, L0803: 3, L0653: 3, L0659: 3, L0665: 3, H0658: 3, H0672: 3, H0341: 2, H0125: 2, S0408: 2, H0587: 2, H0360: 2, H0318: 2, H0263: 2, H0231: 2, H0328: 2, H0615: 2, T0023: 2, H0561: 2, L0372: 2, L0800: 2, L0768: 2, L0766: 2,
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HDPXP07	1015059	507	3 - 242	2682	Lys-1 to Trp-11, Asn-13 to Lys-30,	L0638: 1, L0641: 1, L0643: 1, L0764: 1, L0363: 1, L0649: 1, L0774: 1, L0775: 1, L0376: 1, L0805: 1, L0527: 1, L0657: 1, L0512: 1, L0783: 1, L0382: 1, L0787: 1, L0532: 1, S0216: 1, L0438: 1, H0520: 1, H0593: 1, H0690: 1, H0682: 1, H0683: 1, H0435: 1, H0670: 1, H0660: 1, H0666: 1, H0648: 1, S0380: 1, H0518: 1, H0696: 1, S0044: 1, S0146: 1, S0406: 1, S3012: 1, S0027: 1, S0028: 1, L0746: 1, L0749: 1, L0779: 1, L0777: 1, L0731: 1, L0758: 1, S0031: 1, L0599: 1, L0608: 1, L0595: 1, H0668: 1, H0665: 1, S0276: 1, H0423: 1, S0424: 1, UNIKWN: 1, L0600: 1 and H0008: 1.	L0766: 7, L0769: 4, L0747: 4, L0758: 4,
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HE2KH02	1015093	508	1 - 615	2683	Leu-33 to Thr-53.	H0251: 3, L0805: 3, S0007: 2, S0414: 2, H0644: 2, H0672: 2, S0026: 2, H0686: 1, H0713: 1, H0663: 1, S0376: 1, S0360: 1, S0046: 1, L0717: 1, H0574: 1, H0486: 1, H0427: 1, H0596: 1, L0040: 1, L0738: 1, H0046: 1, H0571: 1, L0471: 1, S0051: 1, H0510: 1, S0003: 1, S0214: 1, H0674: 1, H0708: 1, H0038: 1, H0412: 1, H0646: 1, S0002: 1, L0773: 1, L0662: 1, L0767: 1, L0794: 1, L0804: 1, L0806: 1, L0776: 1, L0606: 1, L0783: 1, L0792: 1, L0665: 1, H0660: 1, H0648: 1, H0521: 1, H0555: 1, L0743: 1, L0756: 1, L0777: 1, L0755: 1, L0759: 1, S0031: 1, L0362: 1, H0542: 1 and H0543: 1.  L0777: 1, L0438: 7.	
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L0759: 6, L0748: 5, H0052: 4, L0779: 4, H0013: 3, L0598: 3, L0770: 3, H0624: 2, H0717: 2, S0442: 2, S0354: 2, L0149: 2, S0046: 2, S0010: 2, H0050: 2, H0328: 2, UNKWN: 2, L0803: 2, L0776: 2, L0659: 2, H0670: 2, H0660: 2, L0439: 2, L0747: 2, L0749: 2, L0731: 2, L0594: 2, H0542: 2, H0170: 1, H0171: 1, L0785: 1, H0384: 1, S0358: 1, H0549: 1, S0222: 1, H0632: 1, S0414: 1, S0474: 1, S0049: 1, H0194: 1, H0327: 1, H0046: 1, H0051: 1, S0051: 1, T0010: 1, H0083: 1, S0003: 1, H0644: 1, H0628: 1, H0316: 1, S0036: 1, H0040: 1, H0413: 1, H0100: 1, S0150: 1, L0769: 1, L0373: 1, L0765: 1, L0662: 1, L0794: 1,				
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						L0649: 1, L0804: 1, L0805: 1, L0789: 1, L0666: 1, L0663: 1, L0665: 1, H0144: 1, S0374: 1, H0520: 1, H0658: 1, H0666: 1, H0672: 1, S0380: 1, S0406: 1, L0754: 1, L0756: 1, L0758: 1, S0031: 1 and L0589: 1.			
HSPS160	1015133	509	2230 - 1901	2684	Gln-20 to Gln-27, Ser-43 to Ser-49, Ser-89 to Ala-95.	L0766: 5, L0438: 3, L0777: 3, H0090: 2, L0439: 2, L0731: 2, L0759: 2, S0114: 1, H0318: 1, L0471: 1, H0687: 1, H0509: 1, H0695: 1, L0803: 1, L0774: 1, L0775: 1, L0523: 1, L0806: 1, L0776: 1, L0809: 1, L0666: 1, H0690: 1, H0683: 1, H0659: 1, H0670: 1, L0749: 1 and L0779: 1.			
HOCOC26	1015143	510	97 - 693	2685	Pro-1 to Ser-9, Glu-48 to Gly-54, Gly-66 to Leu-71, Pro-78 to Gln-84, Ala-108 to Gln-116, Ile-167 to Asp-172,	L0748: 11, L0750: 5, L0740: 4, L0756: 4, L0758: 4, L0769: 3, L0766: 3, L0776: 3, L0779: 3, H0135: 2, L0763: 2, L0770: 2,			

					Thr-179 to His-185.	L0796: 2, L0768: 2, L0774: 2, L0783: 2, L0809: 2, L0438: 2, H0519: 2, H0672: 2, L0751: 2, L0747: 2, L0777: 2, L0755: 2, L0757: 2, H0341: 1, S0356: 1, S0442: 1, S0444: 1, S0360: 1, S0046: 1, H0431: 1, T0040: 1, H0599: 1, H0327: 1, H0046: 1, H0024: 1, H0014: 1, H0510: 1, H0688: 1, H0708: 1, H0413: 1, H0131: 1, S0150: 1, S0426: 1, L0373: 1, L0646: 1, L0771: 1, L0773: 1, L0650: 1, L0666: 1, S0374: 1, H0684: 1, H0660: 1, S0380: 1, S0406: 1, L0749: 1, L0752: 1, L0753: 1, L0588: 1, L0599: 1, H0543: 1, H0423: 1 and H0422: 1.		
HHEDC05	1015204	511	1035 - 7	2686	Pro-43 to Cys-48, Thr-75 to Gln-82.	H0695: 124, H0542: 48, H0730: 32, H0688: 27, H0735: 25, H0684: 24, H0728: 23, H0687:		



[illegible]

HOP1U57	1015324	513	943 - 1164	2688	Gly-1 to Tyr-6, Lys-10 to Gly-19, Ser-46 to Lys-59.	and H0683: 1, H0585: 21, L0742: 12, L0747: 9, S0358: 8, H0052: 8, S0126: 8, H0141: 7, H0620: 7, L0748: 7, H0009: 6, H0624: 4, S0408: 4, H0427: 4, H0081: 4, S0051: 4, H0660: 4, L0750: 4, S0444: 3, H0393: 3, H0599: 3, H0618: 3, L0471: 3, H0083: 3, H0617: 3, H0708: 3, H0413: 3, H0494: 3, H0672: 3, L0740: 3, L0751: 3, L0755: 3, H0171: 2, H0294: 2, S0046: 2, H0455: 2, H0333: 2, H0156: 2, H0002: 2, H0097: 2, H0706: 2, S0049: 2, H0024: 2, H0373: 2, H0356: 2, S0364: 2, S0366: 2, H0135: 2, H0412: 2, S0440: 2, L0640: 2, L0766: 2, L0532: 2, L0754: 2, L0757: 2, S0031: 2, L0604: 2, H0506: 2, H0161: 1,		
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HVCAC71	1015343	514	2 - 1204	2689	Pro-13 to Pro-23.	L0807: 1, H0593: 1, H0682: 1, H0684: 1, H0658: 1, H0670: 1, S0330: 1, H0522: 1, H0576: 1, L0612: 1, S0114: 1, S0027: 1, L0744: 1, L0745: 1, L0731: 1, H0445: 1 and S0434: 1. H0494: 6, H0046: 5, S0028: 5, H0519: 4, H0713: 3, H0547: 3, H0458: 2, H0574: 2, H0013: 2, H0551: 2, T0042: 2, L0438: 2, H0521: 2, S3014: 2, H0423: 2, H0506: 2, H0170: 1, H0171: 1, H0716: 1, S0134: 1, H0650: 1, H0656: 1, H0341: 1, S0212: 1, S0282: 1, H0449: 1, H0638: 1, S0418: 1, S0354: 1, S0358: 1, S0045: 1, S0132: 1, S0476: 1, S0280: 1, H0599: 1, H0575: 1, T0082: 1, H0036: 1, S0010: 1, H0581: 1, H0052: 1, H0251: 1,	4q21-q25	104500, 125490, 137600, 147790, 173910, 189800, 217030, 248510, 252500, 252500, 600919, 601542
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HSXCO55	1015360	515	6 - 1076	2690	Val-9 to Gly-18, Pro-21 to Gly-27, Gly-81 to Trp-91, Lys-120 to Gly-126, Ile-166 to Pro-172, Val-185 to Ala-192,	H0596: 1, H0530: 1, H0544: 1, H0081: 1, H0050: 1, H0014: 1, H0373: 1, S0003: 1, S0022: 1, L0194: 1, H0213: 1, H0644: 1, S0364: 1, S0366: 1, H0040: 1, H0634: 1, H0067: 1, H0268: 1, H0623: 1, L0475: 1, H0561: 1, S0150: 1, H0646: 1, L0766: 1, H0702: 1, S0374: 1, H0520: 1, H0683: 1, H0435: 1, H0660: 1, H0666: 1, H0672: 1, S0380: 1, H0696: 1, S0027: 1, S0032: 1, L0740: 1, L0747: 1, S0434: 1, S0436: 1, L0597: 1, H0667: 1, S0194: 1, H0542: 1, H0543: 1, S0424: 1 and H0293: 1.		
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Asp-207 to Ser-212, Ser-241 to Lys-248, Trp-250 to Tyr-258, Gln-287 to Asn-292	L0659: 2, L0809: 2, L0666: 2, H0144: 2, H0658: 2, L0754: 2, L0750: 2, L0756: 2, L0777: 2, L0780: 2, H0624: 1, H0170: 1, H0171: 1, H0556: 1, S0402: 1, S0282: 1, H0645: 1, L0717: 1, H0586: 1, L0586: 1, H0427: 1, S0010: 1, H0046: 1, H0457: 1, H0050: 1, L0471: 1, S0051: 1, T0010: 1, S6028: 1, H0688: 1, H0031: 1, H0169: 1, S0036: 1, H0135: 1, H0494: 1, H0560: 1, S0438: 1, H0207: 1, H0633: 1, H0647: 1, S0142: 1, S0422: 1, L0803: 1, L0804: 1, L0776: 1, L0655: 1, S0148: 1, H0547: 1, S0126: 1, H0683: 1, H0670: 1, H0672: 1, H0539: 1, L0744: 1, L0757: 1, L0758: 1, L0759: 1, L0593: 1, H0543: 1 and H0423: 1
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HLWDB78	1015430	516	57 - 629	2691	Lys-90 to Arg-96.	L0766: 4, L0748: 4, S0037: 2, L0749: 2, S0360: 1, H0571: 1, S0003: 1, H0553: 1, H0551: 1, S0142: 1, S0002: 1, L0794: 1, L0804: 1, H0519: 1, H0659: 1, H0660: 1, L0754: 1 and H0136: 1.		
HPCQU04	1015563	517	216 - 1232	2692		H0585: 26, H0141: 12, H0623: 6, L0766: 6, H0013: 5, H0318: 5, H0556: 4, H0657: 4, H0457: 4, L0471: 4, L0776: 4, H0659: 4, S0360: 3, H0599: 3, S0010: 3, S0003: 3, H0634: 3, T0067: 3, H0538: 3, L0598: 3, L0770: 3, L0764: 3, H0144: 3, L0751: 3, L0747: 3, L0757: 3, L0758: 3, H0445: 3, H0542: 3, T0002: 2, S0418: 2, S0376: 2, S0132: 2, S0222: 2, H0497: 2, H0559: 2, H0620: 2, H0083: 2, H0428: 2, H0124: 2, H0068: 2, H0090: 2,	4q21	104500, 125490, 147790, 173910, 252500, 252500

H0412: 2, H0494: 2, H0561: 2, L0769: 2, L0372: 2, L0775: 2, L0375: 2, L0655: 2, L0517: 2, L0526: 2, H0520: 2, H0519: 2, S0126: 2, S0330: 2, H0521: 2, S0206: 2, L0743: 2, L0745: 2, L0752: 2, L0593: 2, L0595: 2, S0026: 2, H0543: 2, H0423: 2, H0265: 1, H0686: 1, S0342: 1, T0049: 1, S0134: 1, H0650: 1, S0116: 1, H0341: 1, H0661: 1, S0420: 1, S0356: 1, L0717: 1, S0278: 1, H0549: 1, H0550: 1, H0441: 1, H0442: 1, S0005: 1, L0623: 1, H0486: 1, T0114: 1, S0280: 1, H0575: 1, H0581: 1, H0052: 1, H0046: 1, H0123: 1, H0050: 1, H0012: 1, H0015: 1, H0239: 1, H0375: 1, S0022: 1, H0615: 1, H0030: 1, H0644: 1,
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HDPAT52	1015574	518	1387 - 335	2693	Pro-11 to Gly-18, Glu-24 to Cys-32, Glu-34 to Met-47, Ala-55 to Glu-60, Ile-75 to Gln-81, Ser-132 to Thr-139,	H0628: 1, H0617: 1, H0674: 1, H0316: 1, S0036: 1, H0591: 1, H0040: 1, H0380: 1, H0100: 1, S0372: 1, H0509: 1, H0132: 1, S0142: 1, S0210: 1, S0002: 1, H0529: 1, L0369: 1, L0520: 1, L0763: 1, L0761: 1, L0667: 1, L0386: 1, L0657: 1, L0789: 1, L0666: 1, H0697: 1, T0068: 1, H0547: 1, H0593: 1, H0670: 1, H0539: 1, H0555: 1, H0436: 1, S0014: 1, S0028: 1, L0754: 1, L0750: 1, L0756: 1, L0755: 1, L0588: 1, L0599: 1, L0362: 1, L0361: 1, L0601: 1, S0011: 1, H0665: 1, S0424: 1 and L0600: 1.		
						L0599: 2, H0253: 1, H0581: 1, H0263: 1, H0200: 1, H0040: 1, H0623: 1, H0280: 1, H0593: 1, H0521: 1 and H0555: 1.		

HAOSL81	1015620	519	28 - 747	2694	<p>Gln-167 to Gln-180, Leu-183 to Phe-195, Gln-211 to Gln-223, Gln-232 to Leu-244, Gln-253 to Ala-269, Pro-274 to Leu-292, Thr-302 to Thr-330. Asp-1 to Lys-6, Gln-29 to Gly-35, Pro-39 to Arg-49, Pro-51 to Trp-58, Ser-78 to Gly-83, Ser-179 to His-194.</p>	<p>H0124; 11, L0751; 5, L0747; 4, H0295; 3, H0620; 3, L0794; 3, L0741; 3, L0758; 3, H0686; 2, H0549; 2, H0617; 2, L0768; 2, L0766; 2, L0774; 2, L0745; 2, L0731; 2, H0656; 1, S0420; 1, S0444; 1, S0360; 1, S0408; 1, S0222; 1, H0486; 1, H0013; 1, L0021; 1, H0052; 1, H0327; 1, H0009; 1, T0010; 1, H0033; 1, H0604; 1, H0031; 1, H0068; 1, H0038; 1, H0100; 1, H0509; 1, L0769; 1, L0761; 1, L0804; 1, L0775; 1, L0636; 1, L0809; 1, L0792; 1, L4501; 1, L0665; 1, L0438; 1.</p>		
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HMWU46	1015814	520	1 - 1152	2695	Gly-4 to Gln-11, Val-87 to Asn-97, Gly-168 to Leu-178, Asp-194 to Phe-200, Phe-205 to Arg-210, Gln-292 to Gly-306, Gly-328 to Ser-342, Gly-349 to Asp-358, His-365 to Asp-379.	H0684: 1, H0660: 1, H0539: 1, H0555: 1, L0742: 1, L0786: 1, H0668: 1 and S0424: 1.	20q11.21- q11.23	
HSXCQ19	1015994	521	3 - 1100	2696	Gly-5 to Ala-25, Pro-28 to Leu-43, Pro-45 to Glu-57, Pro-64 to Trp-70, Gly-76 to Ala-90, Gly-99 to Gly-106.	L0809: 7, L0758: 7, S0007: 4, L0662: 4, L0794: 4, L0665: 4, L0439: 4, L0754: 4, H0333: 3, L0769: 3, L0761: 3, L0803: 3, H0395: 2, S0222: 2, H0124: 2, S0036: 2, L0535: 2, L0666: 2, H0658: 2, L0751: 2, L0747: 2, L0485: 2, H0716: 1, H0295: 1, H0402: 1, S0418: 1, S0442: 1, H0619: 1, H0586: 1, L0623: 1, H0486: 1, S0280: 1, L0021: 1, H0618: 1,		

HNOAG06	1016272	522	316 - 546	2697	Pro-8 to Asn-22, Thr-31 to Ser-36.	H0318: 1, H0052: 1, H0251: 1, H0123: 1, H0050: 1, H0012: 1, S0051: 1, H0179: 1, H0615: 1, T0006: 1, H0673: 1, H0135: 1, H0087: 1, H0264: 1, H0100: 1, L0763: 1, L5565: 1, L0667: 1, L0772: 1, L0644: 1, L0768: 1, L0775: 1, L0805: 1, L0655: 1, L0659: 1, L0526: 1, L0663: 1, S0052: 1, H0682: 1, H0660: 1, L0602: 1, L0743: 1, L0750: 1, L0756: 1, L0779: 1, L0777: 1, L0592: 1, H0136: 1 and S0424: 1.	1q21.1	104770, 107670, 110700, 145001, 146790, 191315, 601412, 601652, 601863, 602491
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HE2KN09	1016351	523	3 - 656	2698	H0359: 1, L0770: 1, L0521: 1, L0768: 1, L0803: 1, L0804: 1, L0659: 1, L0809: 1, L0789: 1, H0648: 1, H0651: 1, L0779: 1, L0780: 1 and L0752: 1. AR052: 27, AR033: 27, AR039: 25, AR053: 24, AR055: 19, AR089: 19, AR096: 19, AR104: 17, AR060: 14, AR061: 12 L0776: 4, L0783: 4, H0624: 3, H0559: 3, H0620: 3, H0615: 3, H0100: 3, L0769: 3, L0766: 3, L0755: 3, H0619: 2, H0081: 2, H0604: 2, L0775: 2, L0375: 2, L0659: 2, L0809: 2, H0670: 2, H0672: 2, H0539: 2, L0777: 2, L0759: 2, T0002: 1, H0295: 1, T0049: 1, H0657: 1, H0381: 1, H0661: 1, H0662: 1, S0442: 1, S0376: 1, S0360: 1, S0408: 1, H0550: 1.
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HISDH58	1016740	524	1678 - 248	2699	Asp-55 to Cys-73, Pro-75 to Tyr-85,	S0222: 1, H0486: 1, H0156: 1, H0599: 1, H0052: 1, H0597: 1, H0545: 1, H0565: 1, H0563: 1, H0012: 1, H0373: 1, H0266: 1, H0292: 1, H0284: 1, T0006: 1, H0181: 1, H0617: 1, H0264: 1, H0413: 1, H0059: 1, H0494: 1, H0509: 1, H0529: 1, L0763: 1, L0770: 1, L0796: 1, L0639: 1, L0646: 1, L0643: 1, L0645: 1, L0774: 1, L0806: 1, L0519: 1, L0665: 1, H0144: 1, L0438: 1, L0352: 1, H0520: 1, H0547: 1, S0126: 1, H0658: 1, S0378: 1, S0380: 1, H0521: 1, H0696: 1, H0576: 1, L0439: 1, L0747: 1, L0750: 1, L0752: 1, L0753: 1, L0731: 1 and H0543: 1.		
HSPSB62	1016768	525	148 - 990	2700	Leu-36 to Gln-41,	H0620: 1, H0130: 1 and H0539: 1.		
						S0276: 7, H0543: 6.		

HE2PR37	1016939	526	109 - 729	2701	Asp-48 to Asp-55, Ser-104 to Glu-199, Pro-202 to Trp-233, Gly-236 to Ala-247, Phe-256 to Ser-263, Glu-273 to Asp-281	S0358: 3, H0046: 3, H0424: 3, L0748: 3, H0265: 2, H0556: 2, H0661: 2, S0420: 2, H0052: 2, H0135: 2, H0090: 2, H0433: 2, L0752: 2, L0758: 2, H0422: 2, H0657: 1, H0484: 1, H0483: 1, H0638: 1, S0360: 1, S0132: 1, H0645: 1, H0550: 1, H0391: 1, T0039: 1, H0250: 1, S0010: 1, H0009: 1, H0123: 1, H0081: 1, S0051: 1, H0428: 1, H0040: 1, S0038: 1, S0144: 1, H0547: 1, H0593: 1, H0683: 1, H0670: 1, H0518: 1, H0134: 1, S0037: 1, S3014: 1, S0027: 1, S0032: 1, L0744: 1, L0740: 1, L0746: 1, L0731: 1, H0445: 1, L0596: 1, S0011: 1 and H0542: 1.		
					Gly-1 to Met-15, Met-60 to Gln-67, Val-76 to Gly-82,	AR060: 2, AR089: 2, AR055: 1, AR061: 1, AR096: 1, AR104: 0,		

					Leu-117 to Arg-123.	AR053: 0, AR033: 0, AR039: 0 H0328: 2, H0124: 2, L0766: 2, H0171: 1, L0005: 1, S0360: 1, H0329: 1, H0156: 1, H0615: 1, H0477: 1, S0440: 1, L0598: 1, H0547: 1, S0126: 1, S0168: 1 and H0595: 1.		
HBHU33	1017051	527	1 - 618	2702	Met-34 to Gly-50, Asp-69 to Trp-90, Asp-99 to Lys-107, Val-164 to Thr-170.			
HCOQZ88	1017227	528	3 - 1196	2703	His-1 to Arg-12.	L0748: 38, L0747: 30, L0759: 7, S0360: 5, L0664: 5, L0779: 5, H0486: 4, S0010: 4, L0758: 4, S0222: 3, L0455: 3, S0386: 3, L0764: 3, L0771: 3, L0775: 3, L0438: 3, S0028: 3, L0749: 3, H0580: 2, H0208: 2, H0013: 2, S0280: 2, H0575: 2, H0251: 2, H0024: 2, S0214: 2, H0428: 2, H0622: 2, H0031: 2, H0644: 2, L0646: 2, L0800: 2,	6q23	107470, 107470, 107470, 121014, 142470, 156225, 164200, 164200, 207800, 601316, 601410, 601757, 602067



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HNORH33	1017461	530	255 - 2063	2705		S0358: 11, L0777: 9, H0046: 8, L0439: 6, L0759: 6, L0438: 5, L0662: 4, L0794: 4, L0766: 4, S0114: 3, L0803: 3, L0789: 3, H0144: 3, S0126: 3, L0748: 3, S0011: 3, S0196: 3, H0686: 2, H0250: 2, H0024: 2, H0031: 2, H0628: 2, H0056: 2, L0667: 2, L0805: 2, L0659: 2, L0809: 2, L0663: 2, L0665: 2, S0328: 2, H0521: 2, S3014: 2,

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HUPCG39	1017694	532	1 - 132	2707	Ser-19 to Arg-24,	

HISBM03	1017772	533	748 - 924	2708	Pro-2 to Leu-8, Phe-12 to Arg-20, Thr-32 to Lys-38.	L0776: 2, L0666: 2, L0665: 2, L0758: 2, L0759: 2, H0392: 1, H0581: 1, L0471: 1, H0083: 1, H0687: 1, S0003: 1, L0769: 1, L0639: 1, L0648: 1, L0375: 1, L0657: 1, L0659: 1, L0518: 1, H0659: 1 and L0777: 1.
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HOFAA79	1017801	534	2 - 559	2709	Ala-15 to Asp-26, Phe-108 to Trp-113, Glu-167 to Tyr-175.	L0790: 1, L0792: 1, L0663: 1, H0144: 1, L0352: 1, H0547: 1, S0126: 1, H0658: 1, H0670: 1, H0696: 1, H0134: 1, S0406: 1, H0626: 1, S3012: 1, S0390: 1, L0786: 1, H0595: 1, S0434: 1, L0599: 1, H0653: 1, H0667: 1, S0192: 1, H0542: 1, H0543: 1, H0422: 1, S0042: 1 and S0424: 1.	11		
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HMVDD81	1018080	537	14 - 745	2712		Arg-8 to Gly-17, Gly-29 to Pro-45, Arg-62 to Leu-84, Gln-87 to Leu-96, Glu-103 to Val-114, Gln-141 to Cys-153, Ile-162 to Glu-180, Arg-186 to Lys-211, Asn-219 to Asn- 228.	H0694: 92, L0747: 14, L0766: 13, L0764: 7, S0126: 7, L0439: 7, L0758: 7, L0759: 7, H0657: 6, H0656: 6, S0358: 6, H0266: 6, L0763: 6, L0776: 6, L0655: 6, L0659: 6, L0666: 6, L0748: 6, L0777: 6, L0752: 6, H0445: 6, H0486: 5,		

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HVVDH50	1018226	538	2344 - 1004	2713	Pro-18 to Ser-40, Pro-81 to Pro-95, Pro-111 to Phe-118, Gly-127 to Ala-132, Pro-143 to Phe-151, Pro-164 to Pro-174, Pro-180 to Lys-187, Met-205 to Phe-211, Phe-228 to Pro-236, Pro-245 to Pro-255, Ala-263 to His-270, Gln-272 to Gln-280, Asn-296 to Ala-304, Gly-333 to Gly-344,	L0793: 1, L0664: 1, H0520: 1, H0519: 1, H0593: 1, H0689: 1, H0672: 1, H0651: 1, S0378: 1, S0152: 1, S0350: 1, H0522: 1, S0013: 1, H0704: 1, H0576: 1, S0390: 1, S0027: 1, L0756: 1, L0779: 1, L0780: 1, L0755: 1, H0595: 1, L0596: 1, L0588: 1, L0589: 1, L0366: 1, S0011: 1, S0026: 1, H0665: 1, L0600: 1, H0008: 1 and H0352: 1, L0751: 17, L0731: 11, S0344: 9, S0126: 9, L0743: 9, L0595: 9, S0046: 8, S0002: 8, H0521: 8, L0744: 8, S0278: 7, S0037: 7, L0750: 7, S0420: 6, H0618: 6, H0024: 6, H0188: 6, H0622: 6, S0014: 6, L0439: 6, H0550: 5, H0620: 5, H0551: 5, H0623: 5, L0659: 5, H0255: 4, S0418: 4, H0052: 4,	7q32	180105, 190900, 222800, 246900
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Thr-353 to Ser-360, Gln-365 to Val-379, Pro-381 to Arg-390, Glu-418 to Gln-423, Leu-438 to Ser-445.	S0142: 4, S0426: 4, L0663: 4, H0435: 4, S0027: 4, L0742: 4, L0754: 4, L0758: 4, H0265: 3, H0556: 3, S0040: 3, S0212: 3, S0045: 3, H0599: 3, H0253: 3, T0048: 3, H0266: 3, H0271: 3, S0250: 3, H0494: 3, S0440: 3, H0641: 3, S0144: 3, L0646: 3, L0662: 3, L0775: 3, L0809: 3, L0749: 3, L0777: 3, L0752: 3, H0542: 3, T0002: 2, H0295: 2, H0662: 2, H0306: 2, S0356: 2, S0442: 2, S0360: 2, H0580: 2, H0393: 2, S0222: 2, H0592: 2, H0559: 2, T0039: 2, H0013: 2, H0250: 2, S0280: 2, H0575: 2, H0581: 2, H0597: 2, H0544: 2, H0545: 2, H0046: 2, H0179: 2, H0252: 2, H0039: 2, H0030: 2, H0628: 2, H0617: 2, H0124: 2.
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HNNBT57	1018243	539	377 - 3	2714	Pro-9 to Ala-24, Thr-52 to Gly-61, Thr-64 to Ser-70.	S0330: 1, H0518: 1, H0696: 1, S0406: 1, H0555: 1, S0432: 1, S0118: 1, S0312: 1, S0390: 1, S0206: 1, L0740: 1, L0757: 1, S0031: 1, S0434: 1, L0596: 1, S0194: 1, S0424: 1, H0506: 1 and H0008: 1.			
HCON111	1018459	540	1937 - 1125	2715	His-11 to Ala-17, Pro-29 to Ser-35, Asn-59 to Asp-64, Lys-67 to Leu-72, Gln-101 to Asp-110, Pro-157 to Lys-176, Gln-181 to Lys-210, Gln-213 to Lys-228, Pro-253 to Asn-264.	H0581: 3, H0615: 3, L0766: 3, L0777: 3, H0657: 2, H0486: 2, H0013: 2, H0641: 2, L0803: 2, S0011: 2, H0543: 2, H0423: 2, H0556: 1, H0341: 1, S0420: 1, S0356: 1, H0580: 1, H0586: 1, H0575: 1, S0049: 1, H0263: 1, H0545: 1, H0150: 1, H0041: 1, H0009: 1, L0471: 1, H0014: 1, S0051: 1, S0003: 1, H0328: 1, H0622: 1, H0032: 1, H0674: 1, H0038: 1,	10q23	174900, 236730, 601493	

						H0616: 1, H0551: 1, T0041: 1, S0440: 1, S0422: 1, L0598: 1, H0529: 1, L0520: 1, L0640: 1, L0770: 1, L0794: 1, L0774: 1, L0776: 1, L0655: 1, L0540: 1, L0789: 1, L0792: 1, L0663: 1, L0665: 1, S0374: 1, H0520: 1, H0547: 1, H0689: 1, H0659: 1, H0670: 1, H0666: 1, S0380: 1, H0696: 1, L0742: 1, L0439: 1, L0754: 1, L0590: 1, L0599: 1, H0542: 1, L0718: 1 and L0600: 1.		
HCQAW68	1018501	541	1652 - 1212	2716	Asn-19 to Ile-26, Val-44 to Lys-54, Arg-70 to Val-83, Arg-95 to Thr-100, Arg-136 to Arg-141.	L0748: 4, L0777: 4, L0756: 2, H0263: 1, H0046: 1, H0023: 1, H0188: 1, L0761: 1, L0662: 1, L0526: 1, L0790: 1, L0747: 1 and L0758: 1.		
HVVCY25	1018772	542	1170 - 355	2717	Ser-7 to Trp-12, Pro-28 to Gly-58, Lys-212 to Cys-218, Glu-229 to Gly-235.	H0547: 10, H0542: 10, H0266: 9, L0794: 7, S0358: 6, H0559: 6, L0803: 6, L0666: 6, L0601: 6, H0013: 5,	19p13.3- p13.2	108725, 120700, 133171, 136836, 143890,

H0556: 4, H0550: 4, H0581: 4, H0551: 4, H0494: 4, H0529: 4, L0766: 4, H0519: 4, H0521: 4, H0265: 3, S0360: 3, H0333: 3, H0318: 3, H0150: 3, H0083: 3, H0038: 3, H0538: 3, L0653: 3, H0520: 3, L0602: 3, L0747: 3, L0752: 3, L0591: 3, S0026: 3, H0422: 3, H0170: 2, S0040: 2, H0657: 2, H0341: 2, S0444: 2, H0619: 2, L0717: 2, S0222: 2, H0592: 2, H0250: 2, H0427: 2, S0280: 2, H0156: 2, H0575: 2, S0010: 2, H0544: 2, H0457: 2, H0087: 2, H0100: 2, L0598: 2, L0648: 2, L0649: 2, L0805: 2, L0776: 2, L0659: 2, L0517: 2, L0526: 2, L0809: 2, L0663: 2, L0664: 2, S0374: 2, H0435: 2, H0658: 2, H0672: 2, H0539: 2,	145981, 147141, 147670, 147670, 147670, 151440, 164953, 188070, 231670, 600276, 600957, 601238, 601843, 601846, 602216, 602477
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HCOMB65	1018802	543	233 - 1249	2718		H0068: 1, H0090: 1, H0591: 1, H0063: 1, H0412: 1, H0396: 1, H0561: 1, S0372: 1, H0509: 1, S0422: 1, L0770: 1, L0637: 1, L0667: 1, L0646: 1, L0800: 1, L0641: 1, L0764: 1, L0773: 1, L0662: 1, L0363: 1, L0768: 1, L0387: 1, L0804: 1, L0378: 1, L0806: 1, L0655: 1, L0657: 1, L0636: 1, S0216: 1, H0698: 1, L0438: 1, H0593: 1, H0670: 1, H0660: 1, H0648: 1, H0651: 1, S0328: 1, S0378: 1, H0518: 1, H0704: 1, H0134: 1, H0478: 1, S3014: 1, S0028: 1, L0748: 1, L0755: 1, L0592: 1, S0011: 1, H0665: 1, H0667: 1 and S0242: 1.	22q13.1	103050, 103050, 124030, 124030,
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HVVCF30	1018907	544	50 - 319	2719	Pro-13 to Ala-20, Pro-53 to Ser-61.	S0037: 1, S3014: 1, L0750: 1, L0780: 1, S0260: 1, L0591: 1, S0011: 1, S0026: 1, H0653: 1, H0667: 1, H0136: 1, H0216: 1, S0192: 1, S0276: 1 and H0677: 1.		
H0DBV21	1018943	545	1186 - 476	2720	H0328: 2			
HCHMD81	1019326	546	1 - 1005	2721	Ala-4 to Ala-11.	L0758: 9, L0770: 7, H0620: 6, L0731: 6, L0747: 5, L0777: 5, H0265: 4, L0771: 4, L0748: 4, L0759: 4, L0769: 3, L0662: 3, L0774: 3, L0526: 3, L0439: 3, L0751: 3, L0750: 3, S0358: 2, H0424: 2, S0144: 2, L0520: 2, L0764: 2, L0364: 2, L0776: 2, L0809: 2, L0664: 2, L0754: 2, S0436: 2, L0588: 2, L0601: 2, H0556: 1, H0685: 1, S0040: 1, S6024: 1, H0341: 1, H0484: 1, H0661: 1, H0306: 1,		

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HAZAR95	1019338	547	11 - 1192	2722	Arg-63 to Arg-77, Glu-186 to Trp-192, Ile-222 to Tyr-228, Lys-284 to Glu-293, Asn-324 to Ser-329, Pro-375 to Lys-388	L0666: 13, L0665: 13, L0588: 12, L0601: 9, S0358: 8, L0664: 8, S0360: 7, L0471: 7, L0657: 7, L0659: 7, L0748: 7, H0415: 6, S0214: 6, L0520: 6, L0372: 6, L0803: 6, L0375: 6, L0655: 6, H0659: 6, L0608: 6, L0362: 6, L0361: 6, S0376: 5, L0663: 5, L0439: 5, T0049: 4, H0581: 4, L0646: 4, L0804: 4, L0809: 4, S0328: 4, L0747: 4, L0749: 4, L0755: 4, L0731: 4, L0591: 4, L0604: 4, L0595: 4, H0542: 4, H0662: 3, H0545: 3, H0687: 3, H0100: 3, H0509: 3, H0529: 3, L0763: 3, L0764: 3, L0662: 3, L0794: 3, S0330: 3, L0740: 3, H0445: 3, L0600: 3, H0265: 2, H0661: 2, S0418: 2, H0156: 2, H0318: 2, H0172: 2, H0620: 2,	12q23	124200, 147440, 160781, 235800, 600175
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H0051: 2, T0010: 2, H0510: 2, T0006: 2, H0617: 2, H0674: 2, H0413: 2, S0344: 2, L0598: 2, L0369: 2, L0637: 2, L0648: 2, L0626: 2, L0363: 2, L0768: 2, L0775: 2, L0651: 2, L0378: 2, L0383: 2, S0122: 2, H0690: 2, H0670: 2, H0648: 2, S0380: 2, H0626: 2, L0744: 2, L0777: 2, L0752: 2, L0757: 2, L0758: 2, L0596: 2, L0592: 2, L0593: 2, H0665: 2, H0543: 2, S0424: 2, H0170: 1, H0686: 1, H0685: 1, S0342: 1, S0134: 1, H0657: 1, H0341: 1, H0663: 1, H0306: 1, S0356: 1, S0442: 1, S0354: 1, S0444: 1, S0408: 1, S0468: 1, S0045: 1, H0411: 1, S0278: 1, H0370: 1, H0392: 1, H0587: 1, L0622: 1, H0486: 1, T0039: 1,
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T0060: 1, H0427: 1, H0599: 1, H0004: 1, S0346: 1, H0196: 1, H0052: 1, H0263: 1, H0544: 1, T0003: 1, H0083: 1, H0629: 1, S0028: 1, H0188: 1, S0003: 1, H0428: 1, H0039: 1, H0030: 1, H0553: 1, H0165: 1, H0169: 1, S0036: 1, H0135: 1, H0551: 1, H0264: 1, H0412: 1, T0069: 1, L0475: 1, S0370: 1, L0065: 1, S0438: 1, H0647: 1, H0649: 1, S0422: 1, S0426: 1, L0762: 1, L0371: 1, L0770: 1, L0769: 1, L0638: 1, L0761: 1, L0641: 1, L0642: 1, L0773: 1, L0521: 1, L0387: 1, L0766: 1, L0649: 1, L0774: 1, L0807: 1, L0517: 1, L0540: 1, L0526: 1, L0384: 1, L0382: 1, L0530: 1, L0647: 1, L0787: 1, L0532: 1, S0374: 1,	
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HMWFS51	1019409	548	65 - 484	2723	L0565: 1, H0691: 1, L0438: 1, H0547: 1, H0519: 1, H0365: 1, H0689: 1, H0684: 1, H0658: 1, H0660: 1, H0666: 1, S0332: 1, H0522: 1, S0013: 1, H0696: 1, H0704: 1, S0044: 1, S0404: 1, H0436: 1, S0432: 1, S3012: 1, S0027: 1, S0206: 1, L0779: 1, L0759: 1, L0683: 1, S0434: 1, L0589: 1, L0590: 1, L0599: 1, S0026: 1, H0653: 1, H0667: 1, H0423: 1 and H0352: 1. L0776: 3, H0341: 2, L0005: 2, T0023: 2, L0766: 2, L0527: 2, L0659: 2, L0809: 2, L0665: 2, L0748: 2, L0740: 2, L0747: 2, L0731: 2, L0362: 2, S0114: 1, H0305: 1, S0376: 1, H0393: 1, H0574: 1, H0013: 1, H0263: 1, H0266: 1, H0688: 1, L0483: 1,		
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HE8SD82	1019585	549	1 - 570	2724	Asn-1 to Pro-7, Gln-33 to Ser-40, Pro-54 to Thr-63, Leu-82 to Arg-106, Gly-109 to Asn-119, Gln-145 to Val-150, Lys-161 to Gln-168, Arg-170 to Phe-175, Thr-177 to Tyr-184	H0031: 4, S0007: 2, H0244: 2, S0010: 2, H0194: 2, H0553: 2, S0036: 2, H0040: 2, H0529: 2, L0005: 1, S0356: 1, H0676: 1, H0411: 1, S0222: 1, H0497: 1, H0013: 1, H0575: 1, H0327: 1, L0471: 1, H0024: 1, L0143: 1, H0038: 1, H0494: 1, H0538: 1, H0660: 1, H0539: 1, H0521: 1, H0555: 1 and H0136: 1.		
HSPSN08	1019608	550	77 - 1120	2725	Pro-25 to Glu-54, Ser-66 to Glu-71, Gly-86 to Trp-92, Arg-104 to Asn-109	H0683: 11, H0617: 3, L0766: 2, H0686: 1, H0254: 1, H0255: 1, L0021: 1, H0123: 1,		

					Asn-133 to Asn-138, Thr-153 to Ser-160, Asn-269 to Glu-277, Leu-290 to Tyr-297	H0012: 1, S0051: 1, H0083: 1, H0039: 1, T0006: 1, H0413: 1, L0794: 1, L0809: 1, L0748: 1 and S0026: 1.		
HVCAH24	1019749	551	97 - 468	2726	Arg-1 to Arg-8, Gly-30 to Gln-40, Phe-50 to Asp-58, Leu-97 to Ser-112.	H0156: 2, H0624: 1, H0171: 1, H0686: 1, H0656: 1, H0574: 1, H0486: 1, S0316: 1, H0622: 1, H0038: 1, S0150: 1, H0520: 1, H0547: 1, H0658: 1, H0666: 1, H0521: 1 and S0028: 1.		
HCEBF54	1019777	552	400 - 840	2727	Pro-89 to Leu-101.	AR104: 2, AR061: 1, AR089: 1, AR033: 0, AR060: 0, AR096: 0, AR053: 0, AR039: 0, AR055: 0, AR052: 0 L0794: 2, L0803: 2, L0655: 2, L0665: 2, H0684: 2, L0754: 2, L0747: 2, H0686: 1, L0470: 1, H0662: 1, H0125: 1, S0360: 1, L0021: 1, H0052: 1, H0085: 1, H0597: 1, H0009: 1, S0362: 1, H0644: 1, H0673: 1, L0060: 1, H0560: 1,		

HPQAD21	1019869	553	176 - 271	2728					L0638: 1, L0761: 1, L0373: 1, L0765: 1, L0774: 1, L0805: 1, L0809: 1, L0790: 1, L0666: 1, L0664: 1, L0689: 1, H0682: 1, H0660: 1, L0742: 1, L0748: 1, S0434: 1, L0592: 1, L0608: 1, L0601: 1, H0542: 1 and H0423: 1.
									S0136: 115, L0803: 9, S0026: 9, L0731: 8, H0624: 6, S0418: 6, S0358: 6, L0805: 6, H0619: 5, L0656: 5, L0439: 5, L0754: 5, L0756: 5, H0170: 4, S0360: 4, H0553: 4, L0662: 4, H0547: 4, L0750: 4, L0779: 4, H0351: 3, H0486: 3, H0046: 3, H0050: 3, L0471: 3, H0266: 3, H0623: 3, L0770: 3, H0144: 3, H0520: 3, S0380: 3, S0040: 2, H0295: 2, H0661: 2, S0420: 2, S0376: 2, H0722: 2, H0369: 2,

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HJPCF71	1019892	554	219 - 830	2729	Asp-41 to Gly-56.	<p>H0111: 1, H0628: 1, S0364: 1, H0135: 1, H0616: 1, H0551: 1, H0268: 1, H0100: 1, H0494: 1, H0652: 1, S0210: 1, L0763: 1, L5566: 1, L0646: 1, L0800: 1, L0764: 1, L0771: 1, L0768: 1, L0649: 1, L0804: 1, L0775: 1, L0806: 1, L0527: 1, L0636: 1, L0783: 1, L0790: 1, S0296: 1, H0693: 1, H0519: 1, H0690: 1, H0682: 1, H0684: 1, H0648: 1, H0672: 1, S0454: 1, S0013: 1, H0626: 1, H0627: 1, S0028: 1, L0744: 1, L0777: 1, L0755: 1, L0757: 1, L0758: 1, L0759: 1, S0434: 1, S0436: 1, L0592: 1, H0667: 1, S0194: 1 and H0506: 1.</p> <p>L0439: 4, L0777: 4, S0214: 3, L0752: 3, H0686: 2, H0486: 2, L0775: 2, L0651: 2.</p>
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HVCAE76	1019942	555	99 - 2111	2730	L0750: 2, S0114: 1, H0656: 1, S0212: 1, H0663: 1, H0586: 1, H0546: 1, H0024: 1, H0083: 1, H0510: 1, H0428: 1, H0038: 1, H0560: 1, H0646: 1, L0763: 1, L0773: 1, L0662: 1, L0774: 1, L0378: 1, L0661: 1, L0384: 1, L0789: 1, L0666: 1, L0438: 1, S0028: 1, L0747: 1, L0756: 1, L0758: 1, H0423: 1 and S0460: 1, L0779: 7, L0439: 5, H0624: 4, L0766: 4, L0438: 4, H0657: 3, L0662: 3, L0657: 3, L0666: 3, S0360: 2, L0764: 2, L0655: 2, L0532: 2, L0664: 2, S0428: 2, H0670: 2, L0777: 2, L0755: 2, L0731: 2, H0423: 2, L0465: 2, H0170: 1, L0002: 1, H0583: 1, S0400: 1, H0589: 1, L0481: 1, S0354: 1, S0358: 1, S0408: 1,
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HOCMH14	1020007	556	1 - 1485	2731	His-3 to Trp-8, Glu-16 to Gly-23, Tyr-47 to Gly-56,	H0351: 1, H0411: 1, H0550: 1, H0333: 1, S0280: 1, H0098: 1, H0122: 1, H0318: 1, H0581: 1, H0263: 1, H0457: 1, H0566: 1, H0050: 1, S0050: 1, H0051: 1, H0188: 1, H0687: 1, H0615: 1, H0039: 1, L0055: 1, H0598: 1, H0040: 1, S0440: 1, H0529: 1, L0761: 1, L0667: 1, L0363: 1, L0768: 1, L0649: 1, L0804: 1, L0776: 1, L0661: 1, L0659: 1, L0809: 1, L0663: 1, L0665: 1, L0352: 1, H0547: 1, H0690: 1, H0666: 1, H0648: 1, H0555: 1, H0436: 1, S0390: 1, S0028: 1, L0744: 1, L0740: 1, L0747: 1, L0752: 1, L0753: 1, L0759: 1, S0031: 1 and L0605: 1.			